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1994 WATER QUALITY REPORT

METROPOLITAN DISTRICT COMMISSION

DIVISION OF WATERSHED MANAGEMENT

QUABBIN RESERVOIR WATERSHED
WARE RIVER WATERSHED

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WATER QUALITY REPORT: 1994
QUABBIN RESERVOIR AND WARE RIVER WATERSHEDS

1.0 SUMMARY

The Metropolitan District Commission Division of Watershed Management (MDC-DWM) was established by Chapter 372 of the Acts of 1984. The Division was created to manage and maintain a system of watersheds and reservoirs and provide pure water to the MWRA, which in turn supplies drinking water to an approximated 2.5 million people.

As shown on figure 1, Quabbin, Wachusett, and the Ware River watersheds combine to form a water supply system that is capable of delivering up to 380 million gallons per day to forty-three metropolitan Boston communities. All three watersheds are interconnected via the Quabbin aqueduct, a 24.6 mile, gravity fed tunnel that originates at access shaft 12 located on the eastern shoreline of the Quabbin Reservoir in Hardwick. Water quality leaving the reservoir at this point is monitored both from the shoreline and reservoir on a weekly and monthly (from April to November) basis respectively. A fecal coliform concentration of 50/100ml detected on September 26th was the only occurrence during 1994 when reservoir water quality at this location violated an EPA raw water quality standard. Reservoir alkalinity and pH levels monitored at this location (see figure 2) continue to concern the MDC as levels maintain a delicate balance with the environment.

The Quabbin Reservoir also provides water directly to three western Massachusetts communities via the Chicopee Valley Aqueduct (CVA) located at Windsor Dam. During 1994, intensified harassment efforts on migrating birds have resulted in improvements to bacterial quality observed at the CVA intake sample site. The average fecal coliform concentration at the site was 1/100ml, slightly lower than the previous years average of 5/100ml. More importantly, only once during the year did fecal coliform levels leaving the intake exceed the EPA's allowable raw water limit of 20/100ml.

Water from the Ware River may supplement Quabbin Reservoir supplies to Wachusett by being diverted into the aqueduct via the intake works at shaft 8. Water entering at this point will flow by gravity to shaft 11A (located on the Quabbin's eastern shoreline in Hardwick) where it is directed by baffle dams away from shaft 12 to substantially increase the residence time of Ware River water in the reservoir. Diversion of water in excess of 85 million gallons per day (MGD) from the Ware River is allowed from October 15 through June 1. Diversions from June 1 to June 15, and from October 1 to October 15 may occur with permission from the

Department of Environmental Protection, Division of Water Supply. During 1994, fecal coliform concentrations at shaft 8 exceeded the 20 fecal coliform standard 19% of the time. However, it should be noted that at no time during the allowable diversion period did coliform concentrations exceed the 20 fecal coliform standard and no water was diverted to the Quabbin during the year.

2.0 WATER QUALITY SAMPLING

Water quality sampling and watershed monitoring make up an important part of the overall mission of the Division. These activities are carried out by Environmental Quality (EQ) Section staff in Boston, at Quabbin in Belchertown, and at Wachusett in Clinton. This report is a summary of water quality data and field inspections from the Quabbin and Ware River watersheds. A report summarizing 1994 water quality data from the Wachusett watershed is also available from the Division.

Water quality sampling and field inspections are done to achieve several objectives: bacterial monitoring of the reservoir and its tributaries is necessary to protect public health; the monitoring of nutrients and metals helps to assess the responses of the reservoir and its tributaries to a variety of physical, chemical and biological inputs; and, results are utilized to assure compliance with state and federal water quality standards.

Water quality sampling becomes more important as watersheds become increasingly urbanized, providing EQ staff with a tool that swiftly identifies potential problem areas. On four occasions during the year EQ staff conducted follow up sampling and/or site visits at locations where water quality levels indicated possible pollution problems. Sampling was also utilized to aide in the detection of failing septic systems and non-point source inputs from potential problem areas. Environmental Quality staff also continued to monitor site-specific effects of development on water quality. A summary of emergency responses and site inspections conducted in 1994 can be found in supplementary reports.

3.0 WATERSHED SAMPLING PROGRAM DESCRIPTION

Quabbin Environmental Quality staff collected routine water quality samples from thirty-seven stations on twenty-nine tributaries and the reservoir. Additional stations were sampled for special studies and further investigation. A total of approximately 3200 samples were collected for in-house analysis; roughly 1600 bacterial samples and 1600 chemical samples. Sixty-eight samples were collected and sent to contracted laboratories for nutrients and metals analyses.

Sampling stations were selected on all major and most minor tributaries flowing directly into either the Quabbin reservoir or Ware River. Three reservoir stations were also selected. The stations are described in Tables 1 and 2 and are located on Figures 1A and 2A. Samples were collected bi-monthly for most parameters. Bacteria samples were collected daily from the CVA Intake in the late winter/early spring and in the fall/early winter in order to monitor the effect of migratory gull populations. Annual nutrient and metal samples from thirty-six stations were collected and sent to a contracted laboratory for analysis. Temperature, dissolved oxygen, pH and conductivity profiles were determined monthly at the three reservoir stations during the months of April through November. Measurements were made in the field using a Hydrolab Surveyor II.

Routine tributary samples were collected during both wet and dry conditions throughout the year. Temperature and dissolved oxygen were measured in the field using a dissolved oxygen meter. Samples were collected and analyzed weekly for total and fecal coliform, alkalinity, pH, and turbidity. Quarterly analyses of color, chloride, hardness, total and fixed solids, and iron was also performed by MDC personnel. Standard methods were used for field and lab analysis (refer to Table 3). All data collected is recorded in permanent laboratory books located at the Quabbin Water Quality Lab and transferred as well to an electronic database.

4.0 SPECIAL STUDIES

Sampling for Giardia and Cryptosporidium cysts was initiated in October of 1994 by MDC staff. Filtered water samples were collected at four sites where mamal populations are concentrated and/or potential threats are suspected. Sample site locations have included a site on Pottapaug Pond, along Cadwell Creek, Hop Brook, and one sample collected from the shoreline of the reservoir at the Windsor Dam boat cove. In addition, stool samples from two deer were collected for analysis. Results, further information, and analysis can be found in a separate report to be published in 1995.

An extensive sampling program was continued, documenting the relationship between seasonal bacteria variations and roosting populations of gulls and geese on Quabbin as well as the impact of harassment on both birds and bacteria concentrations. Bacterial samples were collected from the CVA Intake daily for several months early and late in the year. Compilations of bacteria and bird numbers and analysis of the harassment program are included in a separate report to be published in 1995.

SECTION 5.0

REFERENCED FIGURES AND TABLES

Quabbin Reservoir at Shaft #12 (206)

Yearly Averages for pH and Alkalinity

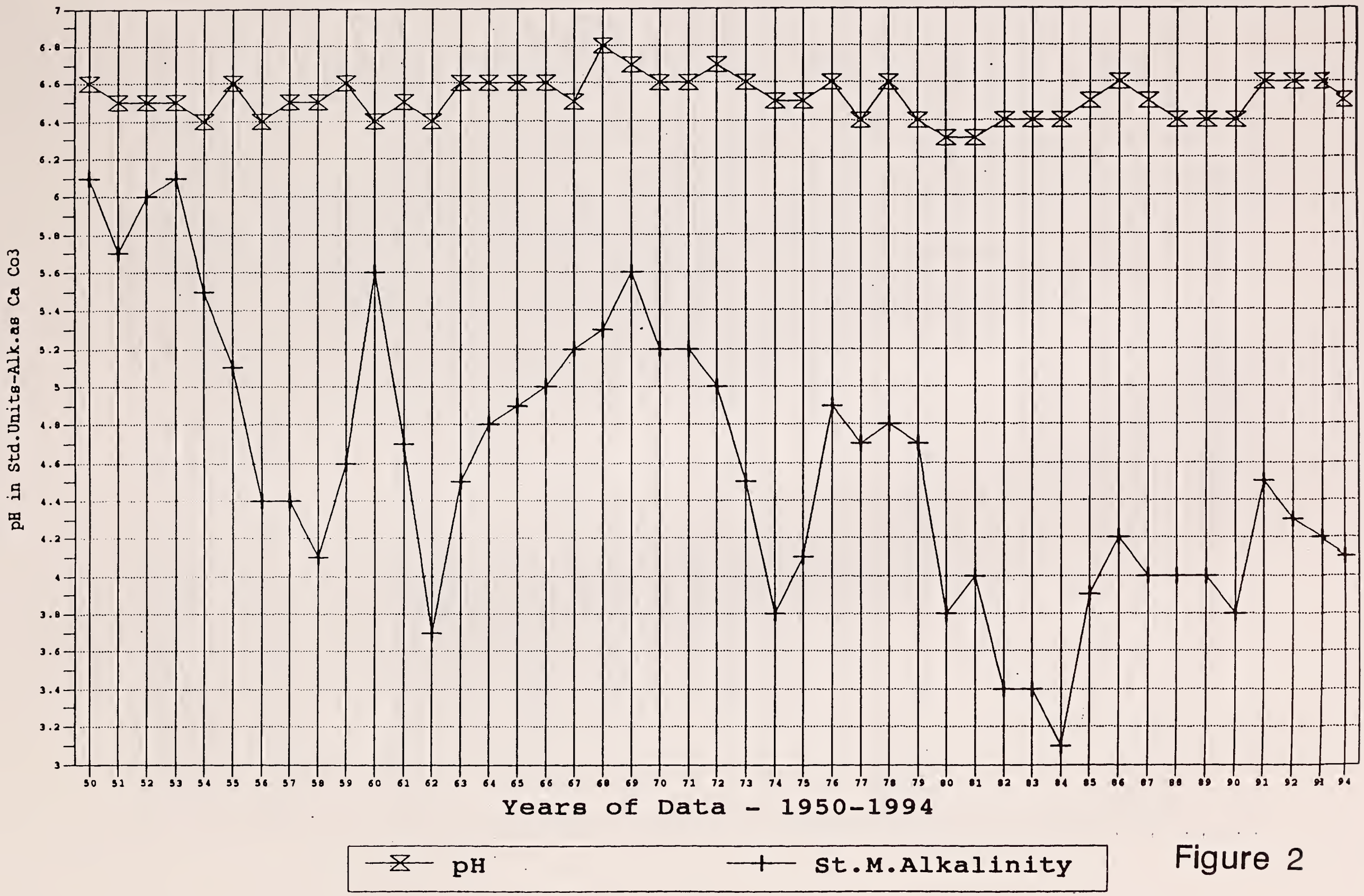

Figure 2

Table 1
1994 Quabbin Tributary Sampling Stations

Frequency	Station	Location
BM	(211) West Branch Swift River	Rt. 202
BM	(213) Middle Branch Swift River	Gate 30
BM	(216) East Branch Swift River	Rt. 32A
BM	(211BX) Cadwell Creek	At mouth
BM	(212) Hop Brook	Gate 22
BM	(212X) Hop Brook	At mouth
BM	(215A) West Branch Fever Brook	Womens Fed. Forest
BM	(215) East Branch Fever Brook	West St. Petersham
BM	(216B) Rand Brook	Rt. 32A
BM	(211A) Atherton Brook	Rt. 202
BM	Boat Cove Tributary	Quabbin Park
BM	Gates Brook	Gate 5/mouth
W	(206) Quabbin	Shaft 12
W	(201) Quabbin	Outlet
BM	(XXX) Petersham	Petersham, Rt. 122 East of Grange Hall
M	QR01/202	West Arm opposite Winsor Dam
M	QR06/206	Quabbin Lake/opposite Shaft 12
M	QR10	Off Den Hill

Frequency: W = weekly
BM = bimonthly
M = monthly

note: QR indicates that samples are collected from the reservoir where sampling is only conducted during the months of April through November.
Sample site stations on the Boat Cove tributary and Gates Brook were added in February and March respectively. Data collected from these two sites are used to monitor beaver populations and additional bacteria inputs close to the CVA intake.

QUABBIN WATERSHED

1994 SAMPLE SITES

FIGURE 1A

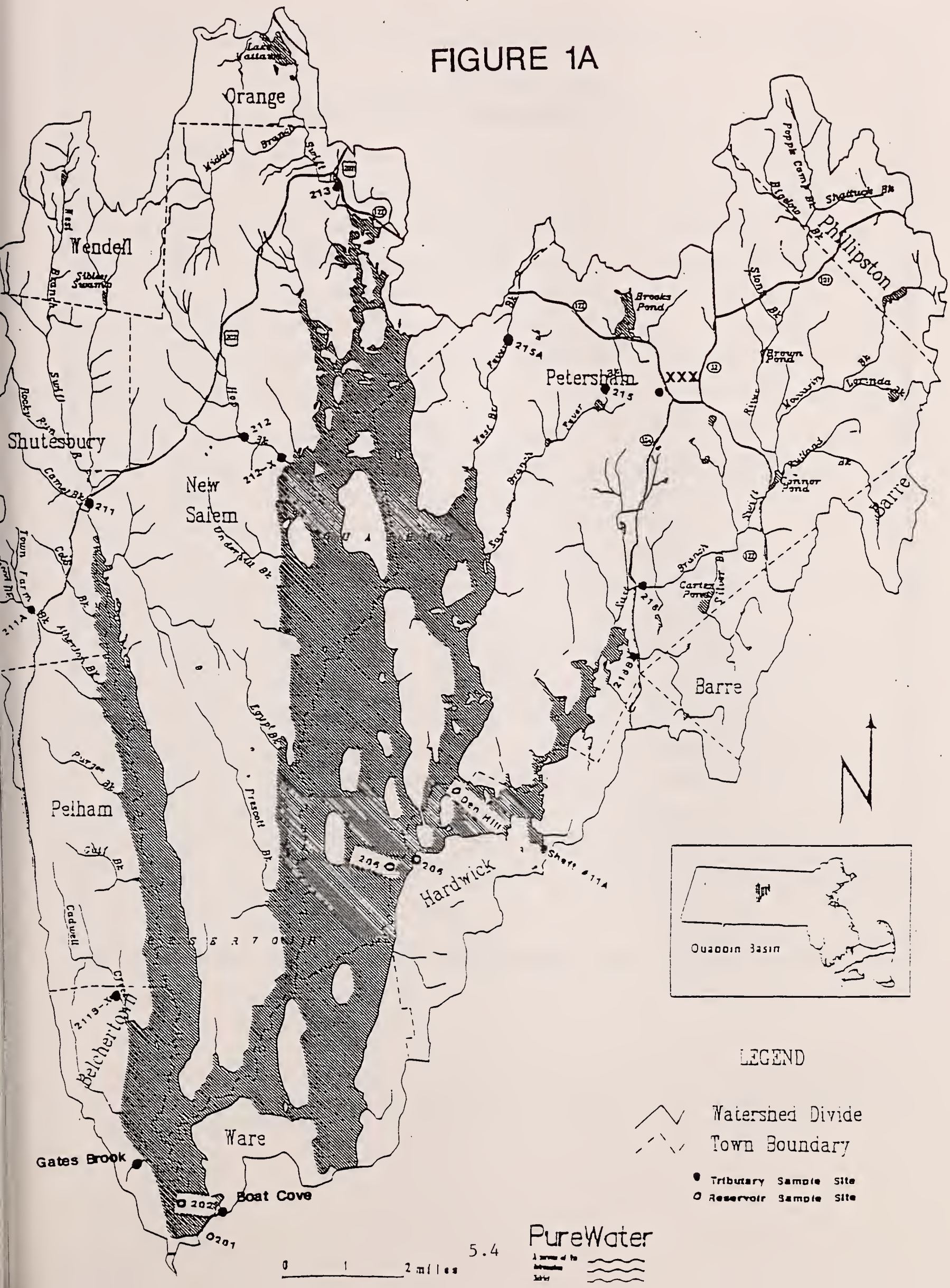

Table 2
Ware River Watershed
1994 Tributary Sampling Stations

Frequency	Station	Location
BM	(111) Queen Lake	Road culvert
BM	(112) Burnshirt River	Williamsville
BM	Natty Pond Brook	Hale Road
BM	(104) Canesto & Natty Brooks	Rt. 62
BM	(103) Burnshirt River	Rt. 62
BM when flowing	Ware River	Shaft 11A
BM	Ware River	Shaft 8
BM	(102) Parker Brook	Near mouth
BM	(110) Long & Whitehall Pond	Outlet
BM	(107) West Branch Ware River	Rt. 62
BM 7/13 thru 8/24	Asnacomet Pond	Beach
BM	(115) Brigham Pond	Outlet
BM	(116) Asnacomet Pond	Outlet
BM	(105) Ware River	Barre Falls
BM	(108) East Branch Ware River	New Boston
BM	(109) Longmeadow Brook	Near mouth
BM	(121) Mill Brook	Charnock Hill Rd
BM	Moulton Pond	Outlet
BM	(119 Demon Pond	Outlet

Frequency: W = weekly
BM = bimonthly
M = monthly

note: The Moulton Pond sample site was added in January of 1994 to develop baseline data in order to monitor the effects of development in the surrounding community.

WARE RIVER WATERSHED

1994 SAMPLE SITES

FIGURE 2A

TABLE 3

METHODS USED FOR FIELD AND LABORATORY ANALYSIS
QUABBIN LABORATORY

PARAMETER	STANDARD METHOD
Turbidity	SM 2130 B
pH	SM 4500-H+ B Hydrolab Surveyor II Orion 811 meter
Alkalinity	SM 2320 B (low level)
Chloride	SM 4500-Cl C
Hardness	SM 2340 C
Color	SM 2120 B
Conductivity	HACH DREL/5 meter Hydrolab Surveyor II
Temperature	YSI Model 57 DO meter Hydrolab Surveyor II
Dissolved Oxygen	YSI Model 57 DO meter Hydrolab Surveyor II
Iron	HACH DR/3 Spectrophotometer
Total Solids	SM 2540 B
Fixed Solids	SM 2540 E
Total Coliform	SM 9222B
Fecal Coliform	SM 9222 D

SM = Standard Methods for the Examination of Water and Wastewater - 18th edition, 1992

SECTION 6.0

WATER QUALITY DATA

MDC QUABBIN LABORATORY REPORTING UNITS

Parameter	Unit
Depth	meters
Dissolved Oxygen	mg/l
Temperature	degrees centigrade
Specific conductance	micromhos per cm
pH	standard units
Turbidity	NTU
Standard alkalinity	mg/l as CaCo3
Hardness	mg/l as CaCo3
Alkalinity	mg/l as CaCo3
Color	color units
Fecal coliform bacteria	colonies/100 ml
Total coliform bacteria	colonies/100 ml
Nitrate-nitrogen	mg/l
Nitrite-nitrogen	mg/l
Kjeldahl-nitrogen	mg/l
Total phosphorus	mg/l
Chlorides	mg/l
Silica	mg/l
Aluminum	mg/l
Arsenic	mg/l
Copper	mg/l
Chromium	mg/l
Iron	mg/l
Lead	mg/l
Mercury	mg/l
Nickel	mg/l
Zinc	mg/l
Total organic carbon	mg/l
Oil and grease	mg/l
Volatile organics	micrograms/l
Solids	mg/l

QUABBIN RESERVOIR WATERSHED

WATER QUALITY DATA

QUABBIN LABORATORY RECORDS 1994
(211) WEST BR. OF SWIFT RIVER---RT.202

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	3	01/03	0.3				6.1	3.9	2.1	13.4	92	0				42	49	3	
	50	01/19	0.3				5.6	2.8	1.2	13.2	90	0				42	18	7	
	80	01/31	0.3				5.6	2.7	0.9	12.8	88	0				38	30	2	
	116	02/14	0.3	8	6.5	8.7	6.2	4.1	2.4	13.6	93	0	36	26	0.04	42	0	0	
	150	02/28	0.3				6.1	3.6	2.0	13.8	94	0				42	27	0	
	184	03/14	0.3				5.7	2.4	0.5	12.8	90	1				42	28	12	
	222	03/28	0.3				5.7	2.5	0.5	13.8	97	1				38	15	3	
	260	04/11	0.3				5.6	2.4	0.4	12.6	94	3				43	1	0	
	298	04/25	0.3				6.0	3.3	1.7	10.5	91	9				48	4	1	
	371	05/09	0.3				5.6	2.3	1.0	10.4	90	9				42	22	15	
REVET	443	05/23	0.3	15	9.1	8.1	6.0	3.3	1.7	9.8	90	12	41	30	0.04	43	13	5	
	478	06/06	0.3				6.3	5.0	3.3	9.3	88	13				55	70	46	
	515	06/20	0.3				6.4	6.6	5.0	7.6	78	17				65	100	17	
	638	07/05	0.3				6.5	6.9	5.2	8.2	82	16				67	110	70	
	763	07/18	0.3				6.5	6.6	4.9	7.5	77	17				67	150	30	
	799	08/01	0.3				5.7	2.6	1.0	8.2	86	18				32	120	10	
	840	08/15	0.4	28	7.4	10.1	6.2	3.9	2.5	8.3	82	15	41	25	0.23	42	110	30	
	975	08/29	0.3				6.2	3.8	2.4	8.6	89	17				42	170	30	
	1016	09/12	0.3				6.6	6.5	5.1	10.0	90	11				58	90	30	
	1168	09/26	0.3				6.1	3.6	2.3	9.0	89	15				40	180	60	
	1220	10/11	0.4				6.2	3.7	2.4	11.0	91	7				43	40	26	
	1348	10/24	0.3				6.1	3.7	2.2	10.3	87	8				40	50	21	
	1435	11/07	0.4				6.2	3.8	2.5	10.3	85	7				43	50	7	
	1498	11/21	0.3	20	7.3	8.2	6.3	4.8	3.1	11.6	86	3	40	30	0.10	47	50	0	
	1553	12/05	0.4				6.1	3.5	1.8	12.5	93	3				40	50	2	
	1610	12/19	0.4				6.1	3.4	1.7	12.6	91	2				38	60	5	
AVG.			0.3	18	7.6	8.8	6.07	3.91	2.30	10.8	89	8	40	28	0.10	45	62	17	
MAX.			0.4	28	9.1	10.1	6.6	6.9	5.2	13.8	97	18	41	30	0.23	67	180	70	
MIN.			0.3	8	6.5	8.1	5.6	2.3	0.4	7.5	77	0	36	25	0.04	32	0	0	

UABBIN LABORATORY RECORDS 1994

211) WEST BR. OF SWIFT RIVER---RT.202 REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	3.5	<0.05	<0.01	0.34	0.013	0.020	0.10	<0.004	<0.003	<0.03	<0.001	0.005	0.07	2.21	<0.004	<0.0002	<0.009	0.024

QUABBIN LABORATORY RECORDS 1994
(213) MIDDLE BR.OF SWIFT RIVER @ GATE #30

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	4	01/03	0.4				6.1	6.2	4.1	9.8	67	0				60	27	5	
	51	01/19	0.4				6.0	6.5	4.7	11.4	78	0				55	26	9	
	81	01/31	0.4				6.0	4.8	2.8	12.2	83	0				50	42	5	
	117	02/14	0.3	15	10.7	10.4	6.2	7.0	5.1	11.6	82	1	33	21	0.10	58	2	0	
	151	02/28	0.3				6.1	6.5	4.7	11.0	75	0				60	7	3	
	185	03/14	0.3				6.0	4.5	2.4	11.6	82	1				50	13	11	
	223	03/28	0.3				6.1	3.9	2.0	12.4	87	1				50	17	8	
	261	04/11	0.3				6.0	3.8	2.2	11.2	87	5				43	2	1	
	299	04/25	0.4				6.1	5.4	3.7	7.5	68	11				62	12	9	
	372	05/09	0.4				5.9	4.1	2.8	8.2	74	11				42	130	100	
REVET	444	05/23	0.5	40	12.1	10.0	6.1	6.6	5.0	6.8	70	17	51	.35	0.18	58	40	32	
	479	06/06	0.6				6.3	10.5	8.4	6.3	65	17				67	20	18	
	516	06/20	0.9				6.5	20.1	17.7	3.8	44	23				80	120	90	
	639	07/05	1.5				6.3	19.3	17.1	1.6	18	21				78	40	20	
	764	07/18	1.3				6.3	17.1	15.1	4.5	50	21				75	150	40	
	800	08/01	0.7				5.9	6.7	5.0	2.8	31	21				43	100	50	
	841	08/15	1.2	90	11.6	16.6	6.2	12.0	10.0	3.6	38	18	64	37	1.22	63	130	40	
	976	08/29	0.7				6.0	8.8	7.1	3.2	34	19				58	300	230	
	1017	09/12	0.6				6.2	11.0	9.0	5.5	53	14				70	50	20	
	1169	09/26	0.8				6.1	10.8	9.1	2.5	25	16				62	140	40	
	1221	10/11	0.6				6.1	9.2	7.7	4.9	43	10				67	64	40	
	1349	10/24	0.6				6.1	10.3	8.8	4.8	42	10				65	50	26	
	1436	11/07	0.7				6.2	10.2	8.7	7.2	59	7				67	15	15	
	1499	11/21	0.6	38	13.0	13.8	6.3	10.5	8.9	6.5	50	4	57	42	0.35	72	19	3	
	1554	12/05	0.5				6.2	6.1	4.2	11.0	80	2				52	38	18	
	1611	12/19	0.5				6.1	4.9	3.0	10.4	71	0				50	25	7	
AVG.			0.6	46	11.9	12.7	6.13	8.72	6.90	7.4	60	10	51	34	0.46	60	61	32	
MAX.			1.5	90	13.0	16.6	6.5	20.1	17.7	12.4	87	23	64	42	1.22	80	300	230	
MIN.			0.3	15	10.7	10.0	5.9	3.8	2.0	1.6	18	0	33	21	0.10	42	2	0	

QUABBIN LABORATORY RECORDS 1994

(213) MIDDLE BR.OF SWIFT RIVER @ GATE #30 REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	2.8	<0.05	<0.01	0.79	0.017	0.020	0.06	<0.004	<0.003	<0.03	<0.001	0.006	0.20	2.92	<0.004	<0.0002	<0.009	0.047

QUABBIN LABORATORY RECORDS 1994

(216) EAST BR. OF SWIFT RIVER @ RT.32A

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	5	01/03	0.4				6.4	4.8	3.0	13.5	92	0				67	41	8	
	52	01/19	0.5				6.2	4.5	2.6	13.1	90	0				63	33	16	
	82	01/31	0.4				6.0	3.1	1.4	13.9	95	0				62	34	6	
	118	02/14	0.4	35	12.7	12.1	6.4	4.9	3.0	13.8	94	0	51	33	0.18	65	12	7	
	152	02/28	0.4				6.4	4.2	2.3	13.4	92	0				67	8	7	
	186	03/14	0.5				6.1	3.4	1.8	13.0	89	0				53	70	55	
	224	03/28	0.4				6.1	3.4	1.5	14.0	98	1				53	60	52	2.50
	262	04/11	0.4				6.1	3.1	1.1	11.8	95	6				50	4	2	2.15
	300	04/25	0.4				6.3	3.7	2.1	10.4	94	11				62	7	6	1.46
	373	05/09	0.5				6.2	3.5	2.0	10.4	94	11				50	130	110	
REVET	445	05/23	0.5	48	13.0	11.7	6.4	4.4	3.1	9.3	94	16	50	31	0.18	55	12	9	1.28
	480	06/06	0.6				6.7	5.5	3.4	8.9	90	16				63	20	4	0.98
	517	06/20	0.5				6.9	8.1	6.6	7.1	80	22				70	110	50	0.70
	640	07/05	0.6				6.9	7.9	6.1	8.6	94	20				70	90	70	0.66
	765	07/18	0.7				6.9	7.5	5.9	8.0	87	20				70	400	250	0.70
	801	08/01	0.7				6.6	5.8	4.0	7.8	88	22				53	110	20	1.08
	842	08/15	0.7	70	13.7	13.4	6.7	6.1	4.5	9.0	93	17	60	34	0.58	65	150	50	0.80
	977	08/29	0.5				6.6	5.6	3.7	8.2	82	16				57	200	30	1.15
	1018	09/12	0.4				6.8	6.4	4.7	9.5	90	13				68	120	10	0.76
	1170	09/26	0.6				6.7	6.7	5.3	8.9	90	16				60	150	20	1.08
	1222	10/11	0.5				6.8	6.9	5.5	11.0	93	8				68	74	9	0.90
	1350	10/24	0.6				6.7	6.7	5.0	10.2	90	10				67	36	7	1.15
	1437	11/07	0.5				6.7	6.9	5.6	11.1	94	8				63	27	4	0.96
	1500	11/21	0.6	50	12.6	11.9	6.7	7.1	5.5	11.9	91	4	55	35	0.32	67	24	1	0.86
	1555	12/05	0.6				6.4	4.3	2.6	12.6	94	3				53	22	7	1.40
	1612	12/19	0.6				6.4	4.5	2.9	12.9	91	1				62	60	8	1.48
AVG.			0.5	51	13.0	12.3	6.50	5.35	3.66	10.9	91	9	54	33	0.32	62	77	31	
MAX.			0.7	70	13.7	13.4	6.9	8.1	6.6	14.0	98	22	60	35	0.58	70	400	250	
MIN.			0.4	35	12.6	11.7	6.0	3.1	1.1	7.1	80	0	50	31	0.18	50	4	1	

QUABBIN LABORATORY RECORDS 1994

(216) EAST BR. OF SWIFT RIVER @ RT.32A

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	<0.05	<0.05	<0.01	0.60	0.017	0.033	0.11	<0.004	<0.003	<0.03	<0.02	0.004	0.25	2.53	<0.004	<0.0002	<0.009	0.025

QUABBIN LABORATORY RECORDS 1994
(211B-X) CADWELL BROOK @ MOUTH

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	6	01/03	0.2				5.8	2.6	0.6	13.9	95	0				38	56	0	
	53	01/19	0.3				5.5	2.2	0.4	13.8	94	0				38	10	3	
	83	01/31	0.3				5.4	2.1	0.2	14.3	98	0				40	18	2	
	119	02/14	0.3	7	5.2	8.0	5.8	2.7	1.0	13.8	94	0	32	19	0.03	38	2	0	
	153	02/28	0.2				5.6	2.3	0.5	13.8	94	0				38	3	2	
	187	03/14	0.3				5.4	2.0	-0.1	13.0	91	1				35	3	1	5.42
	225	03/28	0.3				5.2	1.7	0.2	13.6	98	2				35	3	1	6.02
	263	04/11	0.3				5.4	2.0	0.3	12.5	96	4				33	4	1	5.56
	301	04/25	0.3				5.5	1.4	0.0	10.8	93	9				33	100	70	5.02
	374	05/09	0.3				5.3	1.3	0.1	11.0	93	8				37	33	29	5.52
REVET	446	05/23	0.3	10	7.6	9.8	5.7	1.7	0.5	10.4	94	11	38	27	0.05	37	5	5	4.90
	481	06/06	0.2				6.2	3.4	1.8	8.8	83	13				35	28	14	4.44
	518	06/20	0.2				6.6	4.9	3.3	8.6	87	16				35	24	13	4.22
	641	07/05	0.2				6.5	5.9	4.3	9.1	90	15				35	180	100	4.14
	766	07/18	0.3				6.5	6.0	4.5	8.0	74	12				35	270	190	4.24
	802	08/01	0.5				6.2	3.2	1.7	8.6	90	18				32	200	40	4.65
	843	08/15	0.6	33	6.0	11.2	6.5	4.9	3.3	9.3	92	15	40	24	0.33	35	300	100	4.56
	978	08/29	0.4				6.0	2.3	0.7	9.0	93	17				32	120	40	4.86
	1019	09/12	0.3				6.5	4.7	3.2	9.9	89	11				33	70	20	4.35
	1171	09/26	0.4				6.4	4.3	2.6	9.3	92	15				35	150	40	4.56
	1223	10/11	0.4				6.3	3.4	1.8	11.2	95	8				37	33	7	4.48
	1351	10/24	0.3				6.2	3.3	1.7	10.6	92	9				35	26	3	4.74
	1438	11/07	0.3				6.3	3.5	1.9	10.2	88	9				37	15	0	4.57
	1501	11/21	0.3	13	4.8	7.6	6.4	3.9	2.0	11.8	88	3	36	26	0.08	37	36	2	4.40
	1556	12/05	0.4				5.8	2.2	0.7	12.2	95	5				38	26	3	5.02
	1613	12/19	0.4				5.6	2.1	0.4	12.7	92	2				35	55	5	5.18
AVG.			0.3	16	5.9	9.2	5.95	3.08	1.45	11.2	92	8	37	24	0.12	36	68	27	
MAX.			0.6	33	7.6	11.2	6.6	6.0	4.5	14.3	98	18	40	27	0.33	40	300	190	
MIN.			0.2	7	4.8	7.6	5.2	1.3	-0.1	8.0	74	0	32	19	0.03	32	2	0	

QUABBIN LABORATORY RECORDS 1994
(211B-X) CADWELL BROOK @ MOUTH

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	0.2	<0.05	<0.01	<0.1	0.013	0.017	0.16	<0.004	<0.003	<0.03	<0.001	0.007	0.06	1.84	<0.004	<0.0002	<0.009	0.022

QUABBIN LABORATORY RECORDS 1994

(212) HOP BROOK-GATE #22

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	7	01/03	0.3				6.7	6.4	4.4	13.7	94	0				78	89	5	
	84	01/31	0.3				6.5	5.2	3.4	12.0	82	0				78	200	6	
	120	02/14	0.3	8	12.0	12.7	6.7	7.1	5.4	13.8	94	0	52	40	0.08	72	20	12	
	154	02/28	0.3				6.7	6.7	4.8	13.8	94	0				80	76	11	
	188	03/14	0.3				6.6	5.3	3.6	12.8	90	1				85	40	26	
	226	03/28	0.4				6.4	5.0	3.2	13.6	98	2				65	31	7	
	264	04/11	0.3				6.5	4.6	2.7	12.1	93	4				57	6	1	
	302	04/25	0.3				6.6	6.2	4.7	10.7	93	9				67	37	25	
	375	05/09	0.3				6.5	5.0	3.6	11.0	95	9				58	22	19	
REVET	447	05/23	0.4	20	12.0	13.4	6.7	7.0	5.6	10.2	94	12	56	38	0.12	67	40	25	
	482	06/06	0.4				7.0	9.3	7.6	9.5	92	14				70	70	48	
	519	06/20	0.7				7.1	12.1	10.7	7.6	81	19				80	120	55	
	642	07/05	0.9				7.0	12.8	10.7	8.9	93	18				83	180	130	
	767	07/18	0.9				6.9	12.6	10.9	7.5	80	19				87	300	100	
	803	08/01	0.8				6.8	10.5	9.0	8.5	89	18				72	400	90	
	844	08/15	0.8	37	14.3	17.1	7.0	11.3	9.7	9.1	90	15	67	45	0.42	82	250	70	
	979	08/29	0.8				6.9	10.3	8.4	8.7	90	17				68	600	400	
	1020	09/12	0.6				7.0	11.3	9.8	10.2	94	12				80	140	30	
	1172	09/26	0.6				7.0	11.6	10.2	9.1	90	15				80	270	50	
	1224	10/11	0.5				6.9	11.3	9.7	11.0	91	7				80	55	30	
	1352	10/24	0.6				6.9	10.5	8.9	10.4	90	9				78	39	16	
	1439	11/07	0.5				6.9	10.5	8.8	10.2	88	9				77	35	6	
	1502	11/21	0.5	23	12.1	15.4	6.9	10.9	9.2	11.4	85	3	58	41	0.18	73	17	0	
	1557	12/05	0.6				6.7	7.7	6.1	12.6	97	4				62	40	32	
	1614	12/19	0.4				6.7	6.3	4.5	12.7	92	2				65	26	14	
AVG.			0.5	22	12.6	14.7	6.78	8.70	7.02	10.8	91	9	58	41	0.20	74	124	48	
MAX.			0.9	37	14.3	17.1	7.1	12.8	10.9	13.8	98	19	67	45	0.42	87	600	400	
MIN.			0.3	8	12.0	12.7	6.4	4.6	2.7	7.5	80	0	52	38	0.08	57	6	0	

(212-X) HOP BROOK @ MOUTH

	8	01/03	0.3				6.8	6.6	4.7	14.0	96	0				72	76	12	
	303	04/25	0.3				6.7	5.8	4.2	10.8	93	9				62	33	29	
	376	05/09	0.3				6.6	4.6	3.3	11.0	95	9				52	26	19	
REVET	448	05/23	0.3	20	11.8	13.0	6.8	7.0	5.5	10.1	93	12	52	38	0.09	62	27	16	
	483	06/06	0.3				7.1	9.5	7.8	9.7	90	12				65	20	16	
	520	06/20	0.4				7.2	12.3	10.6	8.9	92	17				70	30	4	
	643	07/05	0.5				7.2	12.9	11.2	9.1	92	16				73	40	10	
	768	07/18	0.5				7.1	13.1	11.5	7.9	83	18				80	80	10	
	804	08/01	0.6				7.0	10.6	9.2	8.7	91	18				70	200	30	
	845	08/15	0.6	33	13.7	16.4	7.2	11.8	10.0	9.5	94	15	64	43	0.30	78	200	40	
	980	08/29	0.7				7.1	10.2	8.3	8.8	91	17				65	350	270	
	1021	09/12	0.4				7.1	11.7	10.0	10.3	93	11				72	70	0	
	1173	09/26	0.5				7.2	11.4	9.7	9.5	94	15				75	170	80	
	1225	10/11	0.5				7.1	11.0	9.7	11.6	96	7				73	35	10	
	1353	10/24	0.5				7.0	10.3	8.9	10.8	93	9				73	18	10	
	1440	11/07	0.5				7.0	10.5	9.2	11.8	100	8				72	13	2	
	1503	11/21	0.4	20	11.7	15.2	7.0	10.7	9.2	12.2	91	3	54	41	0.13	70	13	1	
	1558	12/05	0.5				6.8	7.5	5.9	13.2	101	4				60	26	15	
	1615	12/19	0.4				6.8	6.2	4.6	12.9	93	2				62	39	10	
AVG.			0.4	24	12.4	14.9	6.99	9.67	8.08	10.6	93	11	57	41	0.17	69	77	31	
MAX.			0.7	33	13.7	16.4	7.2	13.1	11.5	14.0	101	18	64	43	0.30	80	350	270	
MIN.			0.3	20	11.7	13.0	6.6	4.6	3.3	7.9	83	0	52	38	0.09	52	13	0	

QUABBIN LABORATORY RECORDS 1994 REVET ANALYSIS

(212) HOP BROOK-GATE #22

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	<0.05	<0.05	<0.01	0.84	0.017	0.023	0.08	<0.004	<0.003	<0.03	<0.001	0.005	0.16	3.37	<0.004	<0.0002	<0.009	0.018

(212-X) HOP BROOK @ MOUTH

05/23	6.1	<0.05	<0.01	0.72	0.023	0.030	0.07	<0.004	<0.003	<0.03	<0.001	0.006	0.20	3.27	<0.004	<0.0002	<0.009	0.010

QUABBIN LABORATORY RECORDS 1994
(215) EAST BR. OF FEVER BROOK--ON WEST RD.

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	9	01/03	0.3				5.6	3.5	1.6	11.5	81	1				82	69	0	1.99
	54	01/19	0.4				5.7	3.7	1.8	11.7	80	0				85	23	0	
	85	01/31	0.4				5.5	3.2	1.4	12.7	87	0				75	26	0	
	121	02/14	0.4	47	19.8	13.9	5.7	3.0	1.0	12.2	83	0	64	41	0.27	82	3	3	
	155	02/28	0.4				5.6	3.1	1.5	12.0	82	0				78	3	0	
	189	03/14	0.3				5.4	2.6	0.6	12.0	82	0				58	3	0	2.40
	227	03/28	0.3				5.4	2.0	0.3	12.8	88	0				65	1	0	2.92
	265	04/11	0.3				5.6	2.4	0.7	11.0	86	5				57	5	0	2.56
	304	04/25	0.4				5.6	2.3	0.8	8.5	82	14				73	3	2	2.58
	377	05/09	0.5				5.5	2.2	0.7	8.9	86	14				65	23	22	3.00
REVET	449	05/23	0.5	48	14.9	11.3	5.7	2.3	0.7	7.2	78	20	55	33	0.22	65	35	27	2.68
	484	06/06	0.5				5.8	3.8	1.9	6.4	67	18				80	35	24	
	521	06/20	0.9				5.8	5.2	3.7	4.8	52	20				65	80	60	
	769	07/18	0.9				5.7	5.4	3.4	3.4	37	20				72	550	400	
	805	08/01	0.7				5.5	2.7	0.9	5.2	61	24				72	200	50	
	846	08/15	0.9	80	18.4	12.5	5.8	4.5	2.9	5.1	53	17	64	31	0.78	68	120	50	
	981	08/29	0.6				5.6	3.4	1.7	6.1	66	20				58	250	110	2.78
	1022	09/12	0.8				5.8	5.2	3.5	6.0	57	13				67	90	30	
	1174	09/26	0.5				5.9	5.7	4.2	5.3	53	16				75	70	20	
	1226	10/11	0.5				5.7	3.3	1.7	7.9	70	10				75	38	9	2.35
	1354	10/24	0.5				5.8	4.7	2.9	7.2	64	10				73	150	100	2.16
	1441	11/07	0.7				5.9	5.2	3.4	7.2	62	9				75	24	0	
	1504	11/21	0.5	50	18.5	10.5	6.1	5.3	3.4	9.3	71	4	65	42	0.33	82	7	0	1.97
	1559	12/05	0.5				5.7	3.0	1.3	11.6	89	4				58	29	5	2.70
	1616	12/19	0.5				5.5	2.9	1.2	11.4	82	2				62	48	1	2.64
AVG.			0.5	56	17.9	12.1	5.68	3.62	1.89	8.7	72	10	62	37	0.40	71	75	37	
MAX.			0.9	80	19.8	13.9	6.1	5.7	4.2	12.8	89	24	65	42	0.78	85	550	400	
MIN.			0.3	47	14.9	10.5	5.4	2.0	0.3	3.4	37	0	55	31	0.22	57	1	0	

QUABBIN LABORATORY RECORDS 1994

(215) EAST BR. OF FEVER BROOK--ON WEST RD. REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	3.5	<0.05	<0.01	0.14	0.017	0.023	0.09	<0.004	<0.003	<0.03	0.002	0.007	0.29	1.92	<0.004	<0.0002	0.010	0.048

QUABBIN LABORATORY RECORDS 1994
(215A) WEST BR. OF FEVER BROOK--WOMENS FED.

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	10	01/03	0.3				6.0	4.4	2.3	12.2	83	0				73	100	0	
	266	04/11	0.3				5.8	2.9	0.9	11.8	91	4				52	5	4	
	305	04/25	0.3				5.9	3.4	1.7	9.0	85	13				62	5	1	
	378	05/09	0.4				5.8	2.8	1.6	8.9	84	13				62	28	22	
REVET	450	05/23	0.5	55	15.4	11.8	6.1	4.1	2.9	8.0	86	19	57	37	0.20	60	17	7	
	485	06/06	0.6				6.3	5.1	3.0	7.3	78	19				67	50	36	
	522	06/20	0.7				6.4	8.0	6.5	5.1	59	23				75	40	10	
	644	07/05	0.6				6.2	6.5	4.6	5.6	63	22				72	60	30	
	770	07/18	0.6				6.1	6.0	4.2	5.2	58	21				72	40	20	
	806	08/01	0.5				5.9	5.3	3.6	5.8	67	23				70	30	0	
	847	08/15	0.5	85	19.9	13.9	6.2	7.2	5.7	6.6	71	19	74	40	0.53	78	90	20	
	982	08/29	0.4				5.9	5.3	3.4	6.6	72	20				62	20	0	
	1023	09/12	0.5				6.1	6.6	5.1	7.7	74	14				70	40	0	
	1175	09/26	0.5				6.2	7.1	5.5	7.2	74	17				70	30	10	
	1227	10/11	0.4				6.0	5.6	4.0	8.4	74	10				75	9	1	
	1355	10/24	0.5				6.2	6.0	4.3	8.8	78	10				73	13	1	
	1442	11/07	0.5				6.3	6.3	4.5	9.5	82	9				77	35	0	
	1505	11/21	0.5	60	17.2	11.9	6.3	6.6	4.6	10.1	77	4	68	45	0.38	80	30	1	
	1560	12/05	0.5				6.0	4.5	2.8	12.2	91	3				63	14	10	
	1617	12/19	0.5				6.0	4.2	2.6	12.2	86	1				62	55	1	
AVG.			0.5	67	17.5	12.5	6.09	5.40	3.69	8.4	77	13	66	41	0.37	69	36	9	
MAX.			0.7	85	19.9	13.9	6.4	8.0	6.5	12.2	91	23	74	45	0.53	80	100	36	
MIN.			0.3	55	15.4	11.8	5.8	2.8	0.9	5.1	58	0	57	37	0.20	52	5	0	

QUABBIN LABORATORY RECORDS 1994

(215A) WEST BR. OF FEVER BROOK--WOMENS FED. REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	3.1	<0.05	<0.01	0.42	0.033	0.033	0.01	<0.004	<0.003	<0.03	<0.001	0.004	0.27	2.14	<0.004	<0.0002	<0.009	0.034

QUABBIN LABORATORY RECORDS 1994
(216B) RAND BROOK--RT.32A

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	11	01/03	0.4				6.7	6.9	4.8	14.4	98	0				58	41	4	
	55	01/19	0.6				6.7	7.4	5.4	13.0	89	0				60	14	3	
	86	01/31	0.5				6.6	5.7	3.7	14.2	97	0				52	35	7	
	122	02/14	0.4	38	8.6	10.2	6.7	7.4	5.5	13.8	94	0	51	32	0.22	58	13	2	
	156	02/28	0.4				6.7	7.3	5.8	14.3	98	0				53	21	4	
	190	03/14	0.4				6.6	5.0	3.0	13.0	89	0				43	15	3	
	228	03/28	0.4				6.4	4.5	2.6	13.6	96	1				40	16	2	
	267	04/11	0.4				6.6	4.5	2.7	12.2	95	5				40	40	35	
	306	04/25	0.5				6.7	5.4	3.8	10.6	96	11				47	12	1	
	379	05/09	0.6				6.7	6.3	4.9	9.2	85	12				48	14	10	
REVET	451	05/23	0.7	50	10.4	13.5	6.8	7.8	6.3	9.4	93	15	52	34	0.28	50	15	6	
	486	06/06	0.8				7.0	10.2	8.3	8.9	90	16				58	70	23	
	523	06/20	1.0				7.2	12.4	10.4	7.2	81	22				60	130	70	
	645	07/05	1.5				7.2	13.0	11.1	8.6	94	20				62	70	30	
	771	07/18	2.0				7.1	14.1	12.5	7.4	82	21				68	250	120	
	807	08/01	1.2				6.8	10.5	8.7	8.0	89	21				52	150	30	
	848	08/15	1.2	70	9.9	16.5	7.0	11.3	9.6	9.0	93	17	59	33	0.62	58	200	40	
	983	08/29	0.7				6.9	8.5	6.9	8.3	89	19				47	150	40	
	1024	09/12	0.8				7.0	10.1	8.5	9.5	88	12				55	60	0	
	1176	09/26	0.8				7.0	10.6	9.0	9.1	92	16				52	170	80	
	1228	10/11	0.8				6.9	11.2	9.4	11.0	93	8				60	38	8	
	1356	10/24	0.7				6.9	10.1	8.4	10.4	92	10				53	40	12	
	1443	11/07	0.7				6.9	10.3	8.6	11.2	97	9				55	22	1	
	1506	11/21	0.7	55	8.7	13.5	6.9	9.8	8.0	12.0	92	4	52	30	0.32	57	15	0	
	1561	12/05	0.8				6.7	8.0	6.3	12.3	94	4				48	50	20	
	1618	12/19	0.6				6.7	7.5	5.7	12.9	91	1				50	60	2	
AVG.			0.8	53	9.4	13.4	6.82	8.68	6.92	10.9	92	9	54	32	0.36	53	66	21	
MAX.			2.0	70	10.4	16.5	7.2	14.1	12.5	14.4	98	22	59	34	0.62	68	250	120	
MIN.			0.4	38	8.6	10.2	6.4	4.5	2.6	7.2	81	0	51	30	0.22	40	12	0	

QUABBIN LABORATORY RECORDS 1994

(216B) RAND BROOK--RT.32A

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	<0.05	<0.05	<0.01	1.10	0.033	0.037	0.11	<0.004	<0.003	<0.03	<0.001	0.003	0.46	3.39	<0.004	<0.0002	<0.009	0.054

QUABBIN LABORATORY RECORDS 1994

(211A) ATHERTON BROOK AT RT. #202

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	12	01/03	0.2				5.9	2.8	0.9	13.5	92	0				38	75	50	
	87	01/31	0.2				5.4	2.0	0.4	13.5	92	0				45	17	0	
	157	02/28	0.2				5.3	1.8	0.0	13.4	92	0					4	0	
	191	03/14	0.2				5.4	2.1	0.3	12.8	90	1				45	3	0	
	229	03/28	0.2				5.3	1.6	0.0	13.7	99	2				43	3	1	
	268	04/11	0.2				5.3	2.0	0.0	12.4	95	4				37	0	0	
	307	04/25	0.2				5.5	1.7	0.3	11.3	95	8				35	1	0	
	380	05/09	0.2				5.2	1.1	-0.1	10.2	88	9				35	1	0	
REVET	452	05/23	0.2	17	8.4	8.1	5.6	1.7	0.4	10.4	94	11	38	28	0.04	33	1	0	
	487	06/06	0.2				6.2	2.8	1.1	9.5	88	12				32	5	2	
	524	06/20	0.2				6.5	4.3	3.0	8.4	85	16				28	40	25	
	646	07/05	0.2				6.5	5.4	3.9	8.9	88	15				30	0	0	
	772	07/18	0.3				6.6	5.8	4.1	7.4	78	18				32	60	10	
	808	08/01	0.3				5.9	3.0	1.5	8.5	88	17				38	40	10	
	849	08/15	0.2	33	8.4	9.2	6.4	4.3	3.0	9.4	91	14	44	29	0.13	42	90	20	
	984	08/29	0.3				6.0	2.5	0.9	8.9	90	16				45	150	70	
	1025	09/12	0.3				6.5	4.3	2.8	9.9	89	11				32	30	10	
	1177	09/26	0.3				6.1	3.3	1.6	9.3	90	14				42	5	0	
	1229	10/11	0.3				6.3	3.5	2.1	11.0	91	7				47	20	1	
	1357	10/24	0.3				6.1	3.2	1.9	10.4	90	9				45	15	3	
	1444	11/07	0.3				6.3	3.2	1.8	10.4	88	8				42	10	1	
	1507	11/21	0.3	22	6.1	6.9	6.4	3.8	2.2	11.5	86	3	38	27	0.07	40	40	1	
	1562	12/05	0.3				5.8	2.1	0.5	12.2	95	5				37	3	0	
	1619	12/19	0.3				5.8	2.1	0.4	12.6	91	2				40	20	0	
AVG.			0.2	24	7.6	8.1	5.93	2.93	1.38	10.8	90	8	40	28	0.08	38	26	9	
MAX.			0.3	33	8.4	9.2	6.6	5.8	4.1	13.7	99	18	44	29	0.13	47	150	70	
MIN.			0.2	17	6.1	6.9	5.2	1.1	-0.1	7.4	78	0	38	27	0.04	28	0	0	

(XXX) SMALL TRIB. ON RT.122 PETERSHAM-EAST OF GRANGE

13	01/03	TNTC	45
88	01/31	TNTC	76
123	02/14	6	3
158	02/28	TNTC	250
192	03/14	300	100
230	03/28	250	190
269	04/11	8	0
308	04/25	50	28
381	05/09	34	16
453	05/23	70	55
488	06/06	50	11
809	08/01	400	170
850	08/15	500	320
985	08/29	300	130
1178	09/26	180	40
1230	10/11	72	2
1358	10/24	300	10
1445	11/07	18	2
1508	11/21	50	0
1563	12/05	TNTC	100
1620	12/19	550	130
AVG.			80
MAX.			320
MIN.			0

QUABBIN LABORATORY RECORDS 1994

(211A) ATHERTON BROOK AT RT. #202 REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	<0.05	<0.05	<0.01	<0.1	0.020	0.030	0.14	<0.004	<0.003	<0.03	<0.001	0.007	0.04	1.57	<0.004	<0.0002	<0.009	0.014

QUABBIN LABORATORY RECORDS 1994
GATES BROOK @ MOUTH

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. FECAL	ELEV. GAGE
	231	03/28	0.3				4.9	1.4	-0.6	12.8	95	3				28	0	0	
	270	04/11	0.3				5.0	1.6	0.1	12.4	95	4				28	0	0	
	309	04/25	0.3				5.0	1.2	-0.4	11.1	94	8				28	0	0	
	382	05/09	0.2				4.7	0.8	-0.6	11.0	93	8				30	3	2	
REVET	454	05/23	0.2	10	3.2	9.8	5.0	1.3	0.1	10.7	97	11	34	25	0.03	28	2	2	
	489	06/06	0.2				5.0	1.5	-0.6	9.8	90	12				28	3	1	
	525	06/20	0.2				5.7	1.9	0.6	8.7	88	16				25	90	50	
	647	07/05	0.2				5.7	2.0	0.2	8.9	90	16				28	38	14	
	773	07/18	0.2				5.9	2.2	0.8	8.2	86	18				28	150	50	
	810	08/01	0.2				5.5	1.6	0.3	8.5	89	18				28	100	70	
	851	08/15	0.3	25	4.5	9.9	5.8	2.4	1.0	9.3	92	15	36	22	0.12	28	110	10	
	986	08/29	0.3				5.3	1.7	0.2	9.6	97	16				27	50	10	
	1026	09/12	0.2				6.0	2.0	0.4	10.0	92	12				28	40	10	
	1179	09/26	0.2				5.6	1.8	0.4	9.4	93	15				28	100	10	
	1231	10/11	0.2				5.7	2.2	0.8	11.0	93	8				30	10	2	
	1359	10/24	0.2				6.1	2.6	1.1	10.5	93	10				30	40	3	
	1446	11/07	0.2				6.2	2.9	1.3	10.7	93	9				30	36	0	
	1509	11/21	0.3	12	2.6	6.1	6.0	3.1	1.6	11.6	89	4	35	24	0.05	30	50	0	
	1564	12/05	0.3				5.6	2.0	0.3	12.8	105	7				28	31	26	
	1621	12/19	0.3				4.9	1.5	-0.2	12.3	92	3				30	3	0	
	AVG.		0.2	16	3.4	8.6	5.48	1.89	0.34	10.5	93	11	35	24	0.07	28	43	13	
	MAX.		0.3	25	4.5	9.9	6.2	3.1	1.6	12.8	105	18	36	25	0.12	30	150	70	
	MIN.		0.2	10	2.6	6.1	4.7	0.8	-0.6	8.2	86	3	34	22	0.03	25	0	0	

QUABBIN LABORATORY RECORDS 1994
BOAT COVE BROOK - NEAR MOUTH

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. FECAL	ELEV. GAGE
	124	02/14	0.5	12	5.0	13.2	7.0	14.9	12.9	12.0	82	0	55	39	0.12	63	4	1	
	159	02/28	0.8				7.0	14.0	12.3	12.8	88	0				60	4	2	
	193	03/14	1.3				6.8	10.3	8.6	13.0	91	1				48	40	30	
	232	03/28	1.5				6.8	8.6	6.6	13.2	95	2				40	7	6	
	271	04/11	0.6				6.9	11.9	9.9	10.8	91	8				52	2	1	
	310	04/25	0.4				7.0	16.0	14.5	9.7	88	11				60	4	1	
	383	05/09	1.5				6.9	14.9	13.6	10.6	94	10				52	35	24	
REVET	455	05/23	0.5	30	5.7	21.0	7.0	19.5	18.2	9.3	92	15	61	42	0.18	63	17	1	
	490	06/06	0.5				7.3	24.7	22.8	9.2	91	15				72	20	7	
	811	08/01	0.8				7.3	31.7	29.4	7.8	85	20				83	400	120	
	987	08/29	0.5				7.4	30.2	28.5	8.0	84	18				82	70	10	
	1180	09/26	0.3				7.5	33.0	31.0	8.5	86	16				92	50	0	
	1232	10/11	0.6				7.1	29.9	28.0	8.9	77	9				93	35	0	
	1360	10/24	0.4				7.3	28.3	26.4	10.0	88	10				95	32	1	
	1510	11/21	0.3	15	4.9	38.2	7.4	30.9	29.3	10.9	84	4	73	51	0.04	100	27	0	
	1622	12/19	0.7				7.0	13.3	11.6	12.5	88	1				60	12	0	
	AVG.		0.7	19	5.2	24.1	7.11	20.76	18.98	10.5	88	9	63	44	0.11	70	47	13	
	MAX.		1.5	30	5.7	38.2	7.5	33.0	31.0	13.2	95	20	73	51	0.18	100	400	120	
	MIN.		0.3	12	4.9	13.2	6.8	8.6	6.6	7.8	77	0	55	39	0.04	40	2	0	

QUABBIN LABORATORY RECORDS 1994
GATES BROOK @ MOUTH

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	2.0	<0.05	<0.01	<0.1	0.013	0.013	0.25	<0.004	<0.003	<0.03	<0.001	0.006	0.02	1.33	<0.004	<0.0002	<0.009	0.015

QUABBIN LABORATORY RECORDS 1994
BOAT COVE BROOK - NEAR MOUTH

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	6.0	<0.05	<0.01	1.60	0.017	0.023	0.14	<0.004	<0.003	<0.03	0.001	0.007	0.52	6.62	<0.004	<0.0002	<0.009	0.035

QUABBIN LABORATORY RECORDS 1994
(206) QUABBIN RESERVOIR @ SHAFT #12

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	ELEV. GAGE
	14	01/03	0.3				6.6	4.1	2.1	12.8	90	1				40	0	0	
	42	01/10	0.3				6.6	4.3	2.4	13.2	90	0				40	0	0	
	56	01/19	0.3				6.6	4.2	2.5	12.8	90	1				40	0	0	
	75	01/24	0.3				6.6	4.3	2.5	13.7	94	0				40	1	0	
	89	01/31	0.3				6.6	4.9	2.9	13.2	90	0				42	0	0	
	111	02/07	0.3				6.6	4.4	2.6	14.0	96	0				40	0	0	
	125	02/14	0.4	5	6.5	9.0	6.6	4.9	2.9	12.8	88	0	33	18	0.03	48	0	0	
	146	02/22	0.3				6.6	4.3	2.4	13.2	90	0				40	0	0	
	160	02/28	0.3				6.5	3.9	2.1	13.5	92	0				42	0	0	
	179	03/07	0.2				6.5	4.3	2.3	13.5	92	0				42	0	0	
	194	03/14	0.2				6.5	4.0	2.2	12.6	89	1				40	0	0	
	217	03/21	0.2				6.4	4.8	2.8	12.0	82	0				42	11	0	
	233	03/28	0.3				5.7	1.9	0.4	13.2	90	0				20	0	0	
	255	04/04	0.3				6.2	3.2	1.3	12.5	86	0				22	0	0	
	272	04/11	0.2				6.4	4.0	2.4	11.8	92	5				38	0	0	
	284	04/19	0.2				6.5	4.2	2.4	12.2	94	4				40	0	0	
	311	04/25	0.3				6.4	4.3	2.7	12.0	99	7				40	0	0	
	369	05/02	0.3				6.4	3.8	2.7	12.1	100	7				40	1	0	
	384	05/09	0.3				6.4	3.8	2.4	11.0	95	9				40	1	0	
	403	05/16	0.3				6.4	3.9	2.8	11.1	100	11				40	1	0	
REVET	456	05/23	0.3	5	7.7	9.8	6.5	4.0	2.5	11.0	104	13	34	21	0.02	40	0	0	
	476	05/31	0.3				6.6	4.3	2.5	10.0	94	13				40	3	0	
	491	06/06	0.3				6.7	4.0	2.2	9.4	95	16				40	1	0	
	511	06/13	0.3				6.7	4.2	2.4	9.2	95	17				40	1	1	
	526	06/20	0.3				6.8	4.5	2.9	8.9	101	22				40	5	1	
	633	06/27	0.3				6.8	4.5	2.9	8.3	92	21				40	1	0	
	648	07/05	0.3				6.7	4.4	2.5	8.4	97	23				40	0	0	
	667	07/11	0.3				6.6	4.4	2.9	8.0	94	24				40	13	8	
	774	07/18	0.3				6.6	4.3	2.7	8.4	98	24				40	5	1	
	795	07/25	0.3				6.6	4.1	2.4	8.6	102	25				40	3	1	
	812	08/01	0.3				6.5	4.0	2.6	7.8	95	26				40	1	1	
	835	08/08	0.3				6.6	4.0	2.5	7.9	91	23				40	0	0	
	852	08/15	0.3	5	4.7	11.0	6.6	3.9	2.7	8.0	92	23	27	14	0.02	40	5	1	
	970	08/22	0.3				6.6	4.2	2.8	8.1	92	22				40	45	19	
	988	08/29	0.3				6.6	4.2	2.8	7.8	88	22				40	12	3	
	1012	09/06	0.3				6.6	4.3	2.8	8.5	91	19				40	15	0	
	1027	09/12	0.3				6.6	4.3	2.7	8.3	90	20				40	8	1	
	1049	09/19	0.3				6.6	3.9	2.1	8.5	91	19				40	3	0	
	1181	09/26	0.3				6.6	3.9	2.5	8.5	91	19				40	80	50	
	1214	10/03	0.3				6.6	3.7	2.0	9.0	93	17				40	4	0	
	1233	10/11	0.3				6.6	4.2	2.8	9.2	93	16				40	5	0	
	1253	10/17	0.3				6.6	3.9	2.4	9.0	89	15				40	0	0	
	1361	10/24	0.3				6.5	4.2	2.9	9.1	88	14				40	11	0	
	1390	10/31	0.3				6.6	4.1	2.8	9.2	89	14				40	4	0	
	1447	11/07	0.4				6.6	4.2	2.9	10.0	94	13				42	7	0	
	1478	11/14	0.3				6.5	4.1	2.6	9.6	87	11				40	9	0	
	1511	11/21	0.3	5	6.0	8.0	6.5	4.2	2.7	9.4	85	11	26	13	0.03	40	1	0	
	1535	11/28	0.3				6.5	4.0	2.7	10.3	87	8				40	2	0	
	1565	12/05	0.3				6.5	4.2	2.6	10.4	88	8				40	9	0	
	1594	12/12	0.4				6.6	4.4	2.8	11.4	89	5				40	1	0	
	1623	12/19	0.3				6.6	4.5	2.9	11.7	91	5				40	4	0	
	1650	12/27	0.3				6.5	4.2	2.7	11.6	91	5				40	4	0	
AVG.			0.3	5	6.2	9.5	6.54	4.13	2.52	10.5	92	11	30	17	0.03	40	5	2	
MAX.			0.4	5	7.7	11.0	6.8	4.9	2.9	14.0	104	26	34	21	0.03	48	80	50	
MIN.			0.2	5	4.7	8.0	5.7	1.9	0.4	7.8	82	0	26	13	0.02	20	0	0	

QUABBIN LABORATORY RECORDS 1994

206) QUABBIN RESERVOIR @ SHAFT #12 REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	0.2	<0.05	<0.01	0.43	0.013	0.020	<0.02	<0.004	<0.003	<0.03	<0.001	0.013	0.03	2.24	<0.004	<0.0002	<0.009	0.007

QUABBIN LABORATORY RECORDS 1994
(201) QUABBIN RESERVOIR @ OUTLET BUILDING

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	M.F. FECAL	
1	01/01															1	0	P.M.
2	01/02															1	0	P.M.
15	01/03	0.3				6.6	4.1	2.1	11.6	89	4				40	0	1	A.M.
16	01/03															3	3	P.M.
17	01/04															9	4	A.M.
18	01/05															3	1	A.M.
19	01/05															0	0	P.M.
20	01/06															1	0	A.M.
21	01/06															1	4	P.M.
22	01/07															1	1	A.M.
23	01/08															4	0	P.M.
24	01/09															1	0	P.M.
43	01/10	0.3				6.6	4.1	2.3	12.5	86	0				40	0	0	A.M.
44	01/10															0	0	P.M.
45	01/11															1	0	A.M.
46	01/11															0	0	P.M.
47	01/12															1	0	A.M.
48	01/13															0	0	A.M.
49	01/13															0	0	P.M.
57	01/19	0.3				6.6	4.0	2.2	13.2	93	1				40	0	0	A.M.
58	01/20															0	0	A.M.
76	01/24	0.3				6.6	4.2	2.3	12.8	93	2				40	0	0	A.M.
77	01/25															0	0	A.M.
78	01/26															0	0	A.M.
79	01/27															0	0	A.M.
90	01/31	0.3				6.6	4.2	2.1	12.7	92	2				40	0	0	A.M.
92	02/01															0	0	A.M.
93	02/02															0	0	A.M.
94	02/03															0	0	A.M.
112	02/07	0.3				6.6	4.1	2.2	13.0	94	2				40	0	0	A.M.
113	02/08															0	0	A.M.
114	02/09															0	0	A.M.
115	02/10															0	0	A.M.
126	02/14	0.3	5	6.5	11.0	6.6	4.0	2.1	13.6	96	1	26	15	0.02	40	0	0	A.M.
127	02/15															0	0	A.M.
128	02/16															0	0	A.M.
129	02/17															0	0	A.M.
147	02/22	0.3				6.6	4.4	2.4	12.5	90	2				40	1	0	A.M.
148	02/23															0	0	A.M.
149	02/24															0	0	A.M.
161	02/28	0.3				6.6	4.0	2.3	12.5	90	2				40	1	0	A.M.
162	03/01															1	0	A.M.
163	03/02															0	1	A.M.
180	03/07	0.2				6.6	4.4	2.4	12.7	92	2				40	0	0	A.M.
181	03/08															0	0	A.M.
182	03/09															0	0	A.M.
183	03/10															0	0	A.M.
195	03/14	0.3				6.5	4.4	2.5	12.2	91	3				40	0	0	A.M.
196	03/15															0	0	A.M.
197	03/16															0	0	A.M.
201	03/17															0	0	A.M.
218	03/21	0.2				6.5	4.2	2.2	12.6	91	2				40	2	0	A.M.
219	03/22															0	0	A.M.
220	03/23															1	1	A.M.
221	03/24															1	1	A.M.

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QUABBIN LABORATORY RECORDS 1994
(201) QUABBIN RESERVOIR @ OUTLET BUILDING

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL	
	234	03/28	0.2				6.5	4.2	2.3	12.8	95	3				40	0	0	A.M.
	235	03/29															0	0	A.M.
	236	03/30															0	0	A.M.
	237	03/31															0	0	A.M.
	256	04/04	0.3				6.5	4.2	2.4	12.5	93	3				40	0	0	A.M.
	257	04/05															0	0	A.M.
	258	04/06															0	0	A.M.
	259	04/07															0	0	A.M.
	273	04/11	0.2				6.5	4.2	2.3	12.4	92	3				40	0	0	A.M.
	274	04/12															0	0	A.M.
	275	04/13															0	0	A.M.
	276	04/14															0	0	A.M.
	285	04/19	0.2				6.5	4.3	2.4	12.4	95	4				40	0	0	A.M.
	296	04/20															0	0	A.M.
	297	04/21															1	0	A.M.
	312	04/25	0.3				6.4	3.8	2.2	11.8	92	5				40	1	0	A.M.
	313	04/26															0	0	A.M.
	314	04/27															0	0	A.M.
	351	04/28															0	0	A.M.
	370	05/02	0.2				6.3	3.9	2.8	11.9	96	6				40	0	0	A.M.
	385	05/09	0.3				6.3	3.7	2.7	11.0	91	7				42	1	0	A.M.
	404	05/16	0.3				6.4	3.9	2.8	11.7	99	8				40	0	0	A.M.
REVET	457	05/23	0.3	5	6.0	9.9	6.5	3.8	2.5	11.2	97	9	34	21	0.02	40	0	0	A.M.
	477	05/31	0.3				6.5	4.0	2.2	11.0	95	9				40	1	0	A.M.
	492	06/06	0.3				6.5	4.3	2.8	10.8	98	11				40	0	0	A.M.
	512	06/13	0.3				6.6	4.0	2.3	11.0	99	11				40	1	0	A.M.
	527	06/20	0.3				6.7	4.1	2.8	10.2	94	12				40	3	0	A.M.
	634	06/27	0.3				6.7	4.0	2.2	10.5	97	12				40	4	0	A.M.
	635	06/28															2	0	A.M.
	636	06/29															0	0	A.M.
	637	06/30															4	0	A.M.
	649	07/05	0.3				6.6	3.9	2.1	10.5	97	12				40	0	0	A.M.
	650	07/06															3	0	A.M.
	651	07/07															4	0	A.M.
	668	07/11	0.3				6.5	3.9	2.1	10.5	97	12				40	51	0	A.M.
	669	07/12															2	0	A.M.
	670	07/13															0	0	A.M.
	762	07/14															2	0	A.M.
	775	07/18	0.3				6.5	3.9	2.1	10.0	94	13				40	3	0	A.M.
	776	07/19															0	0	A.M.
	777	07/20															1	0	A.M.
	778	07/21															1	0	A.M.
	796	07/25	0.3				6.5	4.1	2.6	10.1	95	13				40	3	0	A.M.
	797	07/26															0	0	A.M.
	798	07/27															2	1	A.M.
	799	07/28															1	0	A.M.
	813	08/01	0.3				6.4	4.1	2.7	10.4	98	13				40	0	0	A.M.
	814	08/02															3	0	A.M.
	815	08/03															1	0	A.M.
	816	08/04															1	0	A.M.
	836	08/08	0.3				6.5	3.9	2.4	10.4	98	13				40	0	0	A.M.
	837	08/09															3	1	A.M.
	838	08/10															0	0	A.M.
	839	08/11															0	1	A.M.
	853	08/15	0.3	5	5.0	8.8	6.5	3.9	2.4	10.3	99	14	27	16	0.03	40	0	0	A.M.

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(201) QUABBIN RESERVOIR @ OUTLET BUILDING

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/23	<0.05	<0.05	<0.01	0.40	0.010	0.023	<0.02	<0.004	0.033	<0.03	<0.001	<0.003	0.01	2.18	<0.004	<0.0002	<0.009	0.008

QUABBIN LABORATORY RECORDS 1994
(201) QUABBIN RESERVOIR @ OUTLET BUILDING

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL	
854	08/16															0	0	A.M.
861	08/17															0	0	A.M.
971	08/22	0.3				6.5	4.0	2.6	10.5	101	14				40	3	0	A.M.
972	08/23															1	0	A.M.
973	08/24															1	0	A.M.
974	08/25															0	0	A.M.
989	08/29	0.3				6.5	3.9	2.2	10.3	99	14				40	1	0	A.M.
990	08/30															0	0	A.M.
993	08/31															0	0	A.M.
994	09/01															0	0	A.M.
1013	09/06	0.3				6.6	4.3	2.7	8.5	91	19				40	0	0	A.M.
1014	09/07															0	0	A.M.
1015	09/08															0	0	A.M.
1028	09/12	0.3				6.5	3.9	2.3	9.5	94	15				40	0	0	A.M.
1029	09/13															0	0	A.M.
1030	09/14															1	0	A.M.
1031	09/15															0	0	A.M.
1050	09/19	0.3				6.4	4.1	2.7	9.3	92	15				40	0	0	A.M.
1052	09/20															1	0	A.M.
1053	09/21															0	0	A.M.
1168	09/22															0	0	A.M.
1182	09/26	0.3				6.4	4.0	2.4	8.6	89	17				40	1	1	A.M.
1189	09/27															1	0	A.M.
1190	09/28															3	2	A.M.
1191	09/29															1	0	A.M.
1215	10/03	0.3				6.6	4.1	2.7	8.8	91	17				40	0	0	A.M.
1216	10/04															0	0	A.M.
1217	10/05															0	0	A.M.
1219	10/06															0	0	A.M.
1234	10/11	0.3				6.6	3.8	2.2	9.1	92	16				40	0	0	A.M.
1235	10/12															1	0	A.M.
1236	10/13															0	0	A.M.
1254	10/17	0.3				6.6	4.1	2.6	9.0	89	15				40	1	0	A.M.
1255	10/18															0	0	A.M.
1256	10/19															4	0	A.M.
1347	10/20															4	0	A.M.
1362	10/24	0.3				6.5	3.7	2.4	9.0	89	15				40	3	0	A.M.
1369	10/25															2	0	A.M.
1370	10/26															4	0	A.M.
1373	10/27															27	0	A.M.
1391	10/31	0.3				6.5	4.1	2.6	9.0	87	14				40	18	1	A.M.
1392	11/01															15	6	A.M.
1393	11/02															15	8	A.M.
1394	11/02															26	1	P.M.
1431	11/03															6	1	A.M.
1432	11/03															7	0	P.M.
1433	11/05															16	0	P.M.
1434	11/06															6	1	P.M.
1448	11/07	0.3				6.5	4.0	2.5	9.7	92	13				40	8	0	A.M.
1449	11/07															7	1	P.M.
1450	11/08															4	1	A.M.
1451	11/08															6	2	P.M.
1452	11/09															4	LA	A.M.
1453	11/09															8	LA	P.M.
1456	11/10															6	1	A.M.

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QUABBIN LABORATORY RECORDS 1994
(201) QUABBIN RESERVOIR @ OUTLET BUILDING

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	M.F. FECAL	
1457	11/10															3	0	P.M.
1458	11/11															18	0	P.M.
1459	11/12															2	0	P.M.
1460	11/12													20 ml sample x 5		15		P.M.
1461	11/13															6	0	P.M.
1479	11/14	0.3				6.5	4.0	2.5	9.3	86	12				40	10	0	A.M.
1480	11/14															8	0	P.M.
1481	11/14													20 ml sample x 5		5		P.M.
1484	11/15															21	0	A.M.
1485	11/15													20 ml sample x 5		30		A.M.
1486	11/15															5	0	P.M.
1487	11/15													20 ml sample x 5		10		P.M.
1488	11/16															5	0	A.M.
1489	11/16													20 ml sample x 5		20		A.M.
1490	11/16															LA	0	P.M.
1491	11/16													20 ml sample x 5		80		P.M.
1492	11/17															24	1	A.M.
1493	11/17													20 ml sample x 5		65		A.M.
1494	11/17																1	P.M.
1495	11/18																0	P.M.
1496	11/19																0	P.M.
1497	11/20																0	P.M.
1512	11/21	0.3	5	5.6	7.7	6.5	4.0	2.4	9.2	83	11	28	17	0.03	40	2	0	A.M.
1513	11/21																0	P.M.
1514	11/22															8	1	A.M.
1515	11/22																0	P.M.
1516	11/25																0	P.M.
1517	11/26																1	P.M.
1518	11/27																1	P.M.
1536	11/28	0.3				6.5	4.1	2.8	9.7	86	10				40	1	1	A.M.
1538	11/28																1	P.M.
1544	11/29															4	5	A.M.
1545	11/29																0	P.M.
1546	11/30															0	0	A.M.
1547	11/30																1	P.M.
1548	12/01															1	0	A.M.
1549	12/01																0	P.M.
1550	12/02																0	P.M.
1551	12/03																1	P.M.
1552	12/04																0	P.M.
1566	12/05	0.3				6.5	4.2	2.5	11.2	99	10				40	4	0	A.M.
1567	12/05																0	P.M.
1568	12/06															3	0	A.M.
1569	12/06																0	P.M.
1570	12/07															3	0	A.M.
1571	12/07																0	P.M.
1572	12/08															0	0	A.M.
1573	12/08																0	P.M.
1574	12/09																0	P.M.
1575	12/10																0	P.M.
1576	12/11																1	P.M.
1595	12/12	0.3				6.5	3.9	2.4	10.4	88	8				40	2	1	A.M.
1596	12/12																1	P.M.
1597	12/13															2	0	A.M.
1598	12/13																1	P.M.

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QUABBIN LABORATORY RECORDS 1994
(201) QUABBIN RESERVOIR @ OUTLET BUILDING

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL	
1603	12/14															0	0	A.M.
1604	12/14																1	P.M.
1605	12/15															4	2	A.M.
1606	12/15																2	P.M.
1607	12/16																0	P.M.
1608	12/17																0	P.M.
1609	12/18																0	P.M.
1624	12/19	0.3				6.5	3.8	2.3	10.6	87	7				40	2	0	A.M.
1625	12/19																1	P.M.
1626	12/20															9	4	A.M.
1627	12/20																2	P.M.
1628	12/21															4	1	A.M.
1629	12/21																0	P.M.
1630	12/22															0	0	A.M.
1631	12/22																0	P.M.
1632	12/26																0	P.M.
1651	12/27	0.3				6.5	3.8	2.4	10.9	88	6				40	7	1	A.M.
1652	12/27																0	P.M.
1658	12/28															10	5	A.M.
1659	12/28																0	P.M.
1660	12/29															8	7	A.M.
1661	12/29																25	P.M.
1662	12/30																10	P.M.
1663	12/31																6	P.M.
AVG.		0.3	5	5.8	9.4	6.52	4.04	2.41	10.9	93	9	29	17	0.03	40	4	1	
MAX.		0.3	5	6.5	11.0	6.7	4.4	2.8	13.6	101	19	34	21	0.03	42	80	25	
MIN.		0.2	5	5.0	7.7	6.3	3.7	2.1	8.5	83	0	26	15	0.02	40	0	0	

When figuring yearly totals, Bacteria listed as LA (lab accident) was left off.

WARE RIVER WATER QUALITY DATA

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(112)(B2) BURNSHIRT RIVER--@ WILLIAMSVILLE RD.

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	26	01/10	0.3				6.0	3.6	1.7	13.2	90	0				52	3	0
	60	01/24	0.4				5.9	3.6	1.6	12.6	86	0				62	42	1
	96	02/07	0.3				5.8	3.1	1.1	12.6	89	1				62	3	0
	131	02/22	0.4	35	11.3	11.4	6.0	3.7	1.8	13.2	93	1	53	39	0.15	58	2	2
	165	03/07	0.3				6.0	3.7	1.8	13.2	90	0				58	5	4
	203	03/21	0.3				5.8	2.8	0.9	13.2	90	0				52	3	0
	239	04/04	0.3				5.7	2.6	0.7	12.2	91	3				40	4	0
	288	04/20	0.4				5.8	2.0	0.4	11.2	99	10				42	2	0
	353	05/02	0.4				5.7	2.0	0.6	9.9	91	12				42	1	1
REVET	387	05/16	0.6	48	7.6	7.2	5.8	2.2	0.8	9.7	92	13	35	21	0.18	42	110	20
	460	05/31	0.7				6.1	3.0	1.2	9.0	95	18				42	220	140
	495	06/13	0.8				6.1	3.3	1.5	8.5	93	20				42	20	20
	618	06/27	1.0				6.2	3.9	1.9	7.1	79	21				42	30	20
	653	07/11	1.2				6.1	4.9	3.3	6.7	76	22				43	20	10
	780	07/25	0.7				6.2	4.5	2.7	7.1	84	25				40	80	50
	818	08/08	0.9	70	9.4	8.9	6.2	4.6	3.0	7.3	80	20	48	25	0.78	43	50	30
	953	08/22	0.6				5.8	3.2	1.7	8.3	90	20				40	250	120
	996	09/06	0.6				6.0	3.9	2.3	8.9	86	14				42	60	50
	1033	09/19	0.7				6.2	4.5	2.6	8.5	84	15				43	30	0
	1198	10/03	0.7				6.2	4.0	2.3	9.5	82	9				43	30	20
	1238	10/17	0.8				6.2	4.6	3.2	9.7	80	7				48	40	10
	1375	10/31	0.7				6.1	4.1	2.5	10.6	92	9				47	50	6
	1463	11/14	0.7	95	9.8	7.3	6.0	3.4	1.5	11.5	92	6	50	20	0.43	42	90	4
	1520	11/28	0.5				6.0	3.3	1.6	12.4	92	3				42	14	3
	1578	12/12	0.4				5.6	2.3	0.4	13.2	93	1				43	10	0
	1634	12/27	0.5				5.5	1.8	0.3	12.8	90	1				42	24	5
AVG.			0.6	62	9.5	8.7	5.96	3.41	1.67	10.5	88	10	47	26	0.39	46	46	20
MAX.			1.2	95	11.3	11.4	6.2	4.9	3.3	13.2	99	25	53	39	0.78	62	250	140
MIN.			0.3	35	7.6	7.2	5.5	1.8	0.3	6.7	76	0	35	20	0.15	40	1	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(112)(B2) BURNSHIRT RIVER--@ WILLIAMSVILLE RD. REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	<0.03	<0.05	<0.01	0.15	0.03	0.050	0.14	<0.004	<0.003	<0.03	<0.001	0.004	0.20	1.70	<0.004	<0.0002	0.015	0.029

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(W1) WATTY POND BROOK--@ HALE RD.

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	27	01/10	0.5				5.6	5.5	3.4	6.5	44	0				62	0	0
	61	01/24	0.5				5.6	5.4	3.2	6.1	42	0				63	30	0
	97	02/07	0.5				5.6	4.9	2.9	6.8	47	0				70	2	0
	132	02/22	0.6	50	13.2	13.8	5.8	5.7	3.5	7.2	49	0	59	38	0.43	65	0	0
	166	03/07	0.6				5.8	6.1	4.0	7.8	53	0				68	4	0
	204	03/21	0.5				5.6	3.7	1.9	8.4	57	0				60	13	11
	240	04/04	0.4				5.6	2.9	0.9	9.3	69	3				50	2	0
	289	04/20	0.4				5.6	3.6	1.8	7.5	66	10				50	5	1
	354	05/02	0.5				5.5	4.0	2.9	5.5	50	11				53	33	31
REVET	388	05/16	0.7	95	10.4	13.5	5.8	4.9	3.4	5.9	56	13	47	23	0.68	52	160	80
	461	05/31	0.9				6.0	8.0	6.0	4.1	42	17				57	20	10
	496	06/13	1.3				6.0	9.5	7.2	4.0	43	19				60	120	90
	619	06/27	2.0				6.2	13.4	11.4	2.8	31	21				65	60	40
	654	07/11	4.3				6.1	14.2	12.3	1.7	19	22				68	200	140
	781	07/25	3.2				6.0	12.2	10.2	1.7	20	23				67	400	210
	819	08/08	3.8	280	16.4	16.4	6.1	10.9	9.1	2.0	21	18	101	44	3.60	57	30	10
	954	08/22	1.3				5.8	7.0	5.0	3.2	34	18				48	200	60
	997	09/06	2.0				6.0	8.3	6.5	4.0	38	13				50	60	10
	1034	09/19	1.7				6.0	8.1	6.0	3.9	38	14				53	300	90
	1199	10/03	0.9				5.9	5.9	4.2	5.4	48	10				52	50	10
	1239	10/17	0.8				5.9	5.6	3.8	7.0	58	7				53	30	0
	1376	10/31	0.8				5.8	4.3	2.6	7.2	61	8				57	45	0
	1464	11/14	0.9	80	13.5	9.6	5.9	5.0	3.4	8.8	69	5	54	27	0.88	57	95	1
	1521	11/28	1.0				5.8	5.2	3.5	9.4	66	1				62	35	4
	1579	12/12	0.6				5.6	3.8	2.2	9.3	64	0				55	21	15
	1635	12/27	0.6				5.5	3.2	1.6	9.3	64	0				50	55	6
AVG.			1.2	126	13.4	13.3	5.81	6.59	4.73	6.0	48	9	65	33	1.40	58	76	32
MAX.			4.3	280	16.4	16.4	6.2	14.2	12.3	9.4	69	23	101	44	3.60	70	400	210
MIN.			0.4	50	10.4	9.6	5.5	2.9	0.9	1.7	19	0	47	23	0.43	48	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(N1) NATTY POND BROOK--@ HALE RD.

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.4	<0.05	<0.01	0.36	0.02	0.060	0.08	<0.004	<0.003	<0.03	<0.001	0.005	0.72	2.49	<0.004	<0.0002	0.010	0.045

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(115) BRIGHAM POND---@ OUTLET

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	28	01/10	0.4				5.7	3.0	1.2	12.0	82	0				40	2	0
	62	01/24	0.4				5.7	3.4	1.6	12.6	86	0				42	17	2
	98	02/07	0.4				5.7	3.1	1.1	12.8	88	0				43	4	0
	133	02/22	0.4	43	10.0	12.1	5.9	3.3	1.6	13.0	89	0	49	33	0.17	48	5	0
	167	03/07	0.4				5.9	3.2	1.5	13.0	89	0				43	4	1
	205	03/21	0.4				5.8	3.1	1.2	12.6	86	0				40	3	1
	241	04/04	0.4				5.7	2.7	0.7	11.8	88	3				33	2	2
	290	04/20	0.5				5.7	2.2	0.6	10.4	92	10				33	6	6
	355	05/02	0.5				5.8	2.3	1.2	9.2	87	13				38	15	14
REVET	389	05/16	0.7	60	11.0	9.2	5.9	2.6	1.3	9.5	92	14	38	19	0.18	38	20	0
	462	05/31	0.7				6.1	4.2	2.3	8.6	89	17				38	10	10
	497	06/13	0.8				6.2	4.3	2.6	8.2	89	20				40	10	10
	620	06/27	1.2				6.3	5.5	3.6	6.4	74	23				40	50	40
	655	07/11	1.2				6.4	5.2	3.5	7.2	81	22				40	80	20
	782	07/25	1.7				6.3	5.9	4.3	5.8	69	25				40	60	20
	820	08/08	1.5	100	9.5	10.4	6.2	5.0	3.3	6.5	75	23	58	25	0.72	40	70	10
	955	08/22	1.3				6.0	3.7	2.1	7.5	82	20				38	250	80
	998	09/06	0.9				6.1	4.1	2.1	7.8	77	15				38	40	10
	1035	09/19	0.8				6.1	3.9	2.2	7.2	76	18				40	70	50
	1200	10/03	1.2				6.0	4.3	2.7	7.6	72	13				40	60	30
	1240	10/17	0.8				6.1	4.3	2.6	8.8	78	10				42	30	20
	1377	10/31	0.7				6.2	5.0	3.5	9.0	79	10				42	33	9
	1465	11/14	0.8	70	8.5	8.0	6.3	5.1	3.2	11.2	92	7	49	23	0.38	42	25	4
	1522	11/28	0.7				6.2	4.3	2.3	11.4	87	4				42	25	13
	1580	12/12	0.5				5.8	2.9	1.0	12.3	86	1				38	30	9
	1636	12/27	0.5				5.5	2.2	0.8	12.6	89	1				33	35	12
AVG.			0.8	68	9.8	9.9	5.98	3.80	2.08	9.8	84	10	49	25	0.36	40	37	14
MAX.			1.7	100	11.0	12.1	6.4	5.9	4.3	13.0	92	25	58	33	0.72	48	250	80
MIN.			0.4	43	8.5	8.0	5.5	2.2	0.6	5.8	69	0	38	19	0.17	33	2	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(115) BRIGHAM POND---@ OUTLET

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	<0.03	<0.05	<0.01	0.23	0.07	0.100	0.13	<0.004	<0.003	<0.03	0.001	0.006	0.19	1.97	<0.004	<0.0002	<0.009	0.032

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(116A) ASNACOMET POND---@ BEACH

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
783	07/25	0.3				6.5	3.3	1.7	7.3	89	26				32	16	12
822	08/08	0.5	10	5.4	7.7	6.4	3.1	1.7	7.6	89	24			0.03	32	5	3
957	08/22	3.0				6.4	2.9	1.6	7.9	88	21				32	250	100
AVG.		1.3				6.43	3.10	1.67	7.6	89	24				32	90	38
MAX.		3.0				6.5	3.3	1.7	7.9	89	26				32	250	100
MIN.		0.3				6.4	2.9	1.6	7.3	88	21				32	5	3

(116) ASNACOMET POND---@ OUTLET

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
29	01/10	0.3				6.6	4.4	2.6	12.4	87	1				35	0	0
63	01/24	0.3				6.6	4.4	2.5	12.8	90	1				38	48	0
99	02/07	0.3				6.6	4.3	2.3	13.2	93	1				38	1	0
134	02/22	0.3	8	6.0	9.1	6.4	4.1	2.3	12.8	90	1	32	19	0.04	37	1	0
168	03/07	0.2				6.3	4.0	2.1	12.0	84	1				35	2	0
206	03/21	0.2				6.2	3.7	1.8	12.2	88	2				33	0	0
242	04/04	0.3				6.2	3.6	1.8	11.8	91	4				30	0	0
291	04/20	0.4				6.2	4.1	2.4	11.2	92	7				32	2	2
356	05/02	0.3				6.3	3.5	2.3	10.4	92	10				32	2	0
REVET 390	05/16	0.4	8	6.5	9.0	6.3	3.6	2.3	9.9	93	13	23	11	0.03	32	2	1
463	05/31	0.4				6.6	4.1	2.4	9.6	101	18				32	12	2
498	06/13	0.4				6.6	4.1	2.4	9.2	100	20				32	11	6
821	08/08	0.3	7	5.5	7.2	6.5	3.8	2.4	7.6	89	24	27	14	0.04	32	38	22
956	08/22	0.3				6.4	3.6	2.1	8.2	91	21				32	200	90
999	09/06	0.3				6.5	3.5	2.2	8.1	83	17				32	17	8
1036	09/19	0.3				6.5	4.2	2.8	8.4	88	18				32	30	5
1201	10/03	0.4				6.5	3.3	1.8	8.9	77	9				32	11	6
1581	12/12	0.4				6.4	4.3	2.9	12.0	89	3				32	9	0
1637	12/27	0.5				6.4	4.3	2.8	12.4	92	3				32	5	0
AVG.		0.3	8	6.0	8.4	6.43	3.94	2.33	10.7	90	9	27	15	0.04	33	21	7
MAX.		0.5	8	6.5	9.1	6.6	4.4	2.9	13.2	101	24	32	19	0.04	38	200	90
MIN.		0.2	7	5.5	7.2	6.2	3.3	1.8	7.6	77	1	23	11	0.03	30	0	0

REVET ANALYSIS

QUABBIN LABORATORY RECORDS 1994
(116) ASNACOMET POND---@ OUTLET

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.5	<0.05	<0.01	0.44	0.03	0.070	0.04	<0.004	<0.003	<0.03	<0.001	0.005	<0.01	1.82	<0.004	<0.0002	<0.009	0.020

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(107) WEST BR. OF WARE RIVER--@ RT. #62

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	30	01/10	0.4				5.8	3.7	2.0	11.8	81	0				48	1	1
	64	01/24	0.4				5.7	3.4	1.7	11.0	75	0				52	10	3
	100	02/07	0.3				5.8	3.6	1.8	11.9	81	0				58	3	0
	135	02/22	0.4	45	15.8	12.4	5.9	3.7	1.9	11.4	78	0	61	40	0.22	63	6	1
	169	03/07	0.4				6.0	4.3	2.5	12.0	82	0				58	4	1
	207	03/21	0.4				5.8	3.3	1.5	12.1	83	0				50	2	0
	243	04/04	0.4				5.8	3.0	1.1	11.8	88	3				38	10	2
	292	04/20	0.3				5.9	2.8	1.2	11.0	97	10				40	2	0
	357	05/02	0.5				5.7	2.9	1.7	7.5	68	11				45	10	9
REVET	391	05/16	0.8	65	9.3	11.0	5.9	3.8	2.4	6.8	64	13	42	21	0.50	45	220	120
	464	05/31	1.5				6.0	5.6	3.5	6.5	67	17				47	40	40
	499	06/13	1.7				6.0	7.0	5.0	4.4	47	19				50	100	70
	621	06/27	2.0				6.0	9.7	7.8	0.5	5	20				57	70	20
	656	07/11	3.7				5.9	11.3	9.5	0.9	10	23				52	150	100
	784	07/25	2.5				5.9	12.2	10.1	0.8	9	23				58	250	130
	823	08/08	1.5	95	8.7	9.6	6.1	5.6	4.2	5.3	56	18	60	30	0.93	48	300	180
	958	08/22	1.0				5.7	4.9	3.2	5.7	61	19				48	700	500
	1000	09/06	0.9				6.1	6.3	4.6	6.1	58	13				50	370	100
	1037	09/19	1.2				6.0	7.7	5.8	2.9	29	16				62	450	260
	1202	10/03	0.7				5.8	5.2	3.5	4.8	42	10				48	30	30
	1241	10/17	0.8				5.9	5.9	4.3	6.9	57	7				52	60	60
	1378	10/31	0.8				5.8	5.8	4.2	5.3	45	8				50	26	5
	1466	11/14	1.8	75	9.4	8.9	5.9	5.5	3.5	6.2	48	5	61	29	0.92	50	33	12
	1523	11/28	0.9				6.1	4.7	3.2	11.4	78	0				48	23	3
	1582	12/12	0.5				5.8	3.4	1.4	12.7	87	0				48	19	11
	1638	12/27	0.6				5.6	2.6	1.1	12.2	86	1				40	31	10
AVG.			1.0	70	10.8	10.5	5.88	5.30	3.57	7.7	61	9	56	30	0.64	50	112	64
MAX.			3.7	95	15.8	12.4	6.1	12.2	10.1	12.7	97	23	61	40	0.93	63	700	500
MIN.			0.3	45	8.7	8.9	5.6	2.6	1.1	0.5	5	0	42	21	0.22	38	1	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(107) WEST BR. OF WARE RIVER--@ RT. #62

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.3	<0.05	<0.01	0.25	0.07	0.100	0.11	<0.004	<0.003	<0.03	0.001	0.006	0.52	2.32	<0.004	<0.0002	<0.009	0.161

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(105) WARE RIVER---@ BARRE FALLS

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	244	04/04	0.3				5.8	3.0	1.1	10.4	86	7				45	11	0
	293	04/20	0.4				5.8	3.9	2.0	7.9	70	10				55	14	12
	358	05/02	0.7				6.0	4.7	3.4	8.6	78	11				60	29	24
REVET	392	05/16	1.0	70	14.0	12.0	6.1	5.0	3.5	8.7	82	13	50	27	0.55	60	60	40
	465	05/31	1.3				6.3	6.0	4.2	8.2	86	18				63	60	20
	500	06/13	2.0				6.4	8.4	6.5	7.7	84	20				60	160	90
	622	06/27	2.7				6.5	10.3	8.5	5.6	62	21				63	150	130
	657	07/11	3.2				6.5	12.4	10.4	5.8	68	24				88	220	130
	785	07/25	2.3				6.4	8.2	6.4	5.7	67	24				80	500	300
	824	08/08	1.7	95	20.9	10.2	6.4	8.3	6.7	7.1	76	19	76	44	1.10	87	100	60
	959	08/22	0.9				5.8	4.3	2.4	6.7	72	19				62	500	370
	1001	09/06	1.2				6.4	7.5	5.7	8.2	77	13				78	120	30
	1038	09/19	1.6				6.5	10.1	8.6	7.2	72	16				80	200	100
	1203	10/03	0.8				6.2	6.3	4.5	8.6	76	10				70	30	10
	1242	10/17	0.9				6.4	7.7	6.2	9.7	80	7				88	30	0
	1379	10/31	1.2				6.4	6.9	5.2	9.4	79	8				72	11	6
	1467	11/14	0.9	55	18.0	13.2	6.5	7.2	5.3	11.1	85	4	65	38	0.60	80	50	2
	1524	11/28	0.9				6.3	6.6	5.0	12.1	83	0				73	6	6
	1583	12/12	0.5				6.0	3.9	2.3	12.5	86	0				65	17	3
	1639	12/27	0.6				5.4	2.1	0.3	11.6	86	3				42	27	12
	AVG.		1.3	73	17.6	11.8	6.21	6.64	4.91	8.6	78	12	64	36	0.75	69	115	67
	MAX.		3.2	95	20.9	13.2	6.5	12.4	10.4	12.5	86	24	76	44	1.10	88	500	370
	MIN.		0.3	55	14.0	10.2	5.4	2.1	0.3	5.6	62	0	50	27	0.55	42	6	0

(104)(C1) CANESTO + MATTY BROOKS AT JUNCTION--@ RT. #62

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	32	01/10	0.5				6.2	4.7	3.0	13.4	92	0				52	3	0
	65	01/24	0.4				6.0	4.3	2.5	13.2	90	0				52	13	4
	101	02/07	0.4				6.1	4.0	2.2	13.5	92	0				58	2	0
	136	02/22	0.5	37	11.1	11.4	6.1	4.4	2.5	13.4	92	0	56	36	0.30	58	18	12
	170	03/07	0.4				6.3	4.2	2.3	13.0	89	0				58	6	0
	208	03/21	0.4				6.1	2.8	1.0	13.2	90	0				52	1	0
	245	04/04	0.4				5.8	2.8	0.8	12.3	92	3				42	3	2
	294	04/20	0.3				5.9	2.3	0.7	11.0	93	8				43	2	1
	359	05/02	0.5				5.9	2.1	0.9	10.3	89	9				48	18	8
REVET	393	05/16	0.9	55	12.5	10.1	6.0	2.7	1.3	10.0	90	11	46	24	0.60	43	160	130
	466	05/31	1.0				6.5	5.5	3.7	9.1	92	16				48	30	20
	501	06/13	1.5				6.5	5.8	3.8	9.4	97	17				50	130	20
	623	06/27	2.0				6.7	8.0	6.3	8.1	87	19				52	120	80
	658	07/11	2.5				6.7	8.5	6.5	6.6	72	20				53	100	30
	786	07/25	1.8				6.3	5.0	2.8	7.2	80	21				50	250	120
	825	08/08	2.5	200	12.3	12.9	6.5	7.1	5.4	8.4	85	16	79	37	2.80	52	200	80
	960	08/22	1.3				6.0	3.9	2.5	8.7	91	18				42	900	550
	1002	09/06	1.6				6.5	5.4	3.4	9.2	85	12				43	150	20
	1039	09/19	1.4				6.5	6.1	4.2	9.3	86	12				47	150	40
	1204	10/03	0.9				6.4	5.1	3.2	10.3	87	8				50	60	20
	1243	10/17	0.8				6.4	5.1	3.6	11.2	87	5				48	10	0
	1380	10/31	0.8				6.4	4.3	2.9	10.6	89	8				50	40	13
	1468	11/14	0.8	60	10.8	8.8	6.4	4.7	3.2	12.3	94	4	46	24	0.80	50	40	6
	1525	11/28	1.2				6.2	4.0	2.0	12.9	88	0				52	20	11
	1584	12/12	0.5				5.9	2.8	1.0	14.2	97	0				50	23	5
	1640	12/27	0.6				5.8	2.7	1.2	13.4	92	0				43	12	3
	AVG.		1.0	88	11.7	10.8	6.23	4.55	2.80	10.9	89	8	57	30	1.13	49	95	45
	MAX.		2.5	200	12.5	12.9	6.7	8.5	6.5	14.2	97	21	79	37	2.80	58	900	550
	MIN.		0.3	37	10.8	8.8	5.8	2.1	0.7	6.6	72	0	46	24	0.30	42	1	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(105) WARE RIVER---@ BARRE FALLS

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.4	<0.05	<0.01	0.32	0.03	0.050	0.15	<0.004	<0.003	<0.03	0.001	0.008	0.65	3.06	<0.004	<0.0002	0.010	0.064

(104)(C1) CANESTO + MATTY BROOKS AT JUNCTION--@ RT. #62

05/16	<0.03	<0.05	<0.01	0.27	0.02	0.030	0.15	<0.004	<0.003	<0.03	<0.001	0.005	0.72	2.00	<0.004	<0.0002	0.009	0.059

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(103)(B1) BURNSHIRT RIVER--@ RT.#62

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	33	01/10	0.4				5.8	2.8	1.1	13.0	89	0				50	1	0
	66	01/24	0.3				5.7	2.6	1.1	12.6	86	0				58	5	1
	102	02/07	0.3				5.7	2.9	0.9	13.0	89	0				58	3	1
	137	02/22	0.4	37	13.4	10.0	5.9	3.1	1.1	13.0	89	0	54	34	0.20	57	5	3
	171	03/07	0.4				5.9	3.2	1.5	13.0	89	0				58	7	2
	209	03/21	0.3				5.7	2.7	0.7	12.4	85	0				48	4	1
	246	04/04	0.3				5.5	2.2	0.6	12.0	89	3				40	0	0
	295	04/20	0.3				5.7	2.6	1.0	10.5	93	10				42	2	1
	360	05/02	0.4				5.7	2.3	1.0	9.5	86	11				43	13	11
REVET	394	05/16	0.8	50	9.7	8.5	5.8	2.9	1.6	9.4	89	13	38	22	0.33	42	210	160
	467	05/31	0.7				6.1	3.4	1.5	8.8	91	17				42	20	20
	502	06/13	0.9				6.1	3.7	2.1	9.4	99	18				42	150	60
	624	06/27	1.0				6.3	4.5	2.6	8.1	87	19				42	110	70
	659	07/11	1.2				6.4	4.4	2.5	6.6	72	20				42	350	270
	787	07/25	1.0				6.0	3.2	1.6	7.7	89	23				42	250	130
	826	08/08	1.0	70	9.1	9.5	6.3	4.0	2.3	8.4	87	17	47	24	1.05	40	100	50
	961	08/22	0.8				5.6	2.6	0.8	8.0	86	19				40	900	550
	1003	09/06	0.6				6.3	3.7	2.2	9.1	84	12				40	150	30
	1040	09/19	0.5				6.3	3.8	2.1	8.5	78	12				40	150	20
	1205	10/03	0.6				6.2	4.1	2.6	10.2	90	10				40	20	20
	1244	10/17	0.5				6.3	4.4	3.0	11.0	86	5				40	0	0
	1381	10/31	0.6				6.1	3.6	2.0	9.6	83	9				47	40	17
	1469	11/14	0.5	80	8.5	6.8	6.1	3.7	1.7	12.2	95	5	46	22	0.47	42	130	2
	1526	11/28	0.6				6.0	3.3	1.9	13.0	89	0				42	30	1
	1585	12/12	0.5				5.6	2.4	0.9	13.6	93	0				43	20	6
	1641	12/27	0.5				5.5	1.8	0.3	13.2	93	1				42	12	9
AVG.			0.6	59	10.2	8.7	5.95	3.23	1.57	10.6	88	9	46	26	0.51	45	103	55
MAX.			1.2	80	13.4	10.0	6.4	4.5	3.0	13.6	99	23	54	34	1.05	58	900	550
MIN.			0.3	37	8.5	6.8	5.5	1.8	0.3	6.6	72	0	38	22	0.20	40	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(103)(B1) BURNSHIRT RIVER--@ RT.#62

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.7	<0.05	<0.01	0.21	0.09	0.14	0.13	<0.004	<0.003	<0.03	<0.001	0.007	0.43	1.69	<0.004	<0.0002	<0.009	0.027

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
WARE RIVER--@ SHAFT #11A

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL

No diversion of WARE RIVER into Quabbin during calendar year 1994.

WARE RIVER--@ SHAFT #8

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
34	01/10	0.4				6.0	4.6	2.8			0				60	4	0
67	01/24	0.4				5.8	4.2	2.4	13.6	93	0				65	2	1
103	02/07	0.4				5.9	3.8	1.8	13.5	92	0				70	1	1
138	02/22	0.5	40	14.9	11.7	6.1	3.9	2.1	13.8	94	0	58	38	0.25	65	4	3
172	03/07	0.4				6.1	4.3	2.3	13.4	92	0				72	2	0
210	03/21	0.4				6.0	3.0	1.3	14.0	96	0				62	4	0
247	04/04	0.4				5.9	2.8	0.7	13.0	100	4				48	4	2
276	04/19	0.4				6.0	3.3	1.6	12.0	104	9				53	11	9
361	05/02	0.7				6.1	3.4	2.3	10.6	98	12				58	22	20
REVET 395	05/16	0.9	60	13.9	10.5	6.2	3.5	2.3	9.1	88	14	46	28	0.43	60	30	0
468	05/31	1.2				6.6	5.1	3.2	8.8	92	18				60	14	10
503	06/13	1.7				6.6	6.9	5.1	8.7	91	18				63	100	20
625	06/27	2.3				6.8	8.4	6.5	8.1	90	21				62	70	50
660	07/11	1.7				6.8	8.5	6.6	7.6	89	24				77	100	70
788	07/25	2.2				6.6	7.0	5.4	7.5	86	23				62	350	200
827	08/08	2.0	140	18.2	12.1	6.6	6.8	5.1	8.1	90	21	77	47	1.70	72	80	40
962	08/22	1.3				6.0	4.2	2.8	8.8	94	19				58	450	270
1004	09/06	1.6				6.6	7.0	5.3	9.5	92	14				72	70	10
1041	09/19	1.2				6.6	6.1	4.3	9.2	93	16				62	50	20
1206	10/03	1.2				6.4	6.1	4.5	10.3	93	11				62	40	10
1245	10/17	1.2				6.6	6.6	5.1	10.7	90	8				70	20	0
1382	10/31	1.2				6.5	4.9	3.3	11.2	95	8				60	35	20
1470	11/14	1.0	60	15.1	11.3	6.6	6.1	4.3	12.0	94	5	59	37	0.70	68	65	2
1527	11/28	0.8				6.4	5.5	3.7	13.0	91	1				65	25	10
1586	12/12	0.6				6.0	3.1	1.3	13.6	93	0				55	13	3
1642	12/27	0.8				5.6	2.4	0.7	14.0	96	0				45	26	10
AVG.		1.0	75	15.5	11.4	6.28	5.06	3.34	11.0	93	9	60	38	0.77	63	61	30
MAX.		2.3	140	18.2	12.1	6.8	8.5	6.6	14.0	104	24	77	47	1.70	77	450	270
MIN.		0.4	40	13.9	10.5	5.6	2.4	0.7	7.5	86	0	46	28	0.25	45	1	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES

WARE RIVER--@ SHAFT #8

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.9	<0.05	<0.05	0.37	0.02	0.05	0.10	<0.004	<0.003	<0.03	<0.001	0.006	0.48	2.54	<0.004	<0.0002	0.012	0.038

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(108) EAST BR. OF WARE RIVER---@ NEW BOSTON

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	35	01/10	0.4				5.9	4.0	2.1			0				52	10	2
	68	01/24	0.4				5.8	3.6	1.8	12.4	85	0				55	5	1
	104	02/07	0.3				5.9	3.9	2.2	12.8	88	0				58	6	5
	139	02/22	0.4	33	15.0	11.6	6.0	4.5	2.8	12.0	82	0	56	35	0.15	62	5	4
	173	03/07	0.4				6.0	4.1	2.4	12.8	88	0				58	2	2
	211	03/21	0.4				5.9	3.1	1.4	13.4	92	0				53	16	14
	248	04/04	0.3				5.8	2.7	1.0	12.1	95	5				48	18	5
	277	04/19	0.4				6.1	3.0	1.0	10.6	89	8				48	6	7
	362	05/02	0.6				6.0	3.9	2.5	9.3	84	11				53	22	18
REVET	396	05/16	1.0	55	10.2	8.3	6.1	4.3	2.9	8.5	80	13	42	23	0.37	52	40	20
	469	05/31	1.0				6.3	5.5	3.9	7.6	78	17				52	120	60
	504	06/13	1.3				6.4	7.3	5.5	6.5	70	19				60	200	50
	626	06/27	1.7				6.5	9.8	7.9	5.2	58	21				63	150	90
	661	07/11	1.8				6.4	10.4	8.5	4.6	53	23				63	80	10
	789	07/25	1.3				6.4	9.1	7.5	4.9	56	23				63	400	250
	828	08/08	1.3	95	12.0	12.6	6.4	7.5	6.0	5.9	62	18	66	36	0.95	60	112	70
	963	08/22	0.8				5.9	4.7	2.9	7.2	77	19				52	300	190
	1005	09/06	1.0				6.3	6.8	5.0	7.5	71	13				58	200	110
	1042	09/19	1.2				6.2	8.2	6.6	5.7	56	15				65	300	180
	1207	10/03	0.8				6.2	5.5	3.7	8.4	73	9				58	120	110
	1246	10/17	0.8				6.3	7.1	5.6	8.8	71	6				63	40	30
	1383	10/31	0.8				6.3	6.8	5.2	8.9	75	8				63	30	18
	1471	11/14	0.8	60	12.7	12.1	6.4	6.7	4.9	10.4	80	4	57	34	0.53	62	50	9
	1528	11/28	0.9				6.3	5.9	3.9	11.8	81	0				62	39	33
	1587	12/12	0.5				6.0	3.6	2.1	12.6	86	0				50	27	13
	1643	12/27	0.6				5.6	2.3	0.9	12.7	87	0				42	24	12
AVG.			0.8	61	12.5	11.2	6.13	5.55	3.85	9.3	77	9	55	32	0.50	57	89	51
MAX.			1.8	95	15.0	12.6	6.5	10.4	8.5	13.4	95	23	66	36	0.95	65	400	250
MIN.			0.3	33	10.2	8.3	5.6	2.3	0.9	4.6	53	0	42	23	0.15	42	2	1

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(108) EAST BR. OF WARE RIVER---@ NEW BOSTON REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.3	<0.05	<0.01	0.45	0.03	0.06	0.12	<0.004	<0.003	<0.03	<0.001	0.005	0.39	2.70	<0.004	<0.0002	<0.009	0.057

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(109) LONGMEADOW BROOK---@ MOUTH

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	36	01/10	0.4				6.2	6.9	5.1			0				118	1	0
	69	01/24	0.4				6.0	7.2	5.5	9.4	64	0				127	3	1
	105	02/07	0.3				6.1	7.1	5.4	9.6	66	0				135	1	0
	140	02/22	0.4	32	29.1	17.3	6.2	7.2	5.2	9.7	66	0	88	67	0.22	130	6	0
	249	04/04	0.3				6.1	4.4	2.5	10.5	82	5				83	2	2
	278	04/19	0.4				6.1	6.2	4.4	7.9	70	10				112	2	1
	363	05/02	0.8				6.1	8.5	7.0	7.9	71	11				123	20	19
REVET	397	05/16	1.0	55	31.5	11.9	6.1	8.1	6.7	6.4	60	13	81	60	0.58	128	110	20
	470	05/31	1.3				6.3	10.7	8.9	4.5	47	18				132	80	60
	505	06/13	2.0				6.4	14.2	12.1	5.2	56	19				117	300	250
	627	06/27	1.7				6.0	7.2	5.2	3.2	34	19				138	500	400
	662	07/11	2.8				6.4	17.1	14.8	4.0	45	22				153	250	140
	790	07/25	1.8				6.0	8.9	7.3	2.5	28	22				122	600	400
	829	08/08	1.0	55	36.0	19.0	6.2	10.8	9.0	3.5	36	17	101	74	0.62	147	200	90
	964	08/22	0.6				5.8	6.9	4.9	4.2	45	19				113	900	500
	1006	09/06	0.7				6.2	10.5	9.0	5.1	47	12				128	120	10
	1043	09/19	1.0				6.2	13.6	11.6	4.0	38	13				120	350	120
	1208	10/03	0.7				6.1	9.4	7.5	4.8	42	9				118	160	50
	1247	10/17	0.6				6.1	9.3	7.8	5.0	40	6				148	120	30
	1384	10/31	1.0				6.3	7.9	6.5	4.8	40	7				72	25	4
	1472	11/14	0.9	55	18.0	13.5	6.4	7.6	5.9	6.6	51	4	62	38	0.67	80	45	1
	1529	11/28	0.5				6.0	9.5	7.7	7.5	51	0				142	17	0
	1588	12/12	0.5				6.1	6.3	4.5	10.8	74	0				110	25	3
	1644	12/27	0.5				6.2	6.4	4.8	10.3	72	1				110	13	2
AVG.			0.9	49	28.7	15.4	6.15	8.83	7.05	6.4	53	9	83	60	0.52	121	160	88
MAX.			2.8	55	36.0	19.0	6.4	17.1	14.8	10.8	82	22	101	74	0.67	153	900	500
MIN.			0.3	32	18.0	11.9	5.8	4.4	2.5	2.5	28	0	62	38	0.22	72	1	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(109) LONGMEADOW BROOK---@ MOUTH

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	1.4	<0.05	<0.01	1.00	0.01	0.03	0.03	<0.004	<0.003	<0.03	<0.001	0.003	0.59	4.84	<0.004	<0.0002	0.012	0.062

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(121) MILL BROOK---@ CHARNOCK HILL RD.

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	37	01/10	0.4				6.3	8.7	6.6			0				145	9	10
	70	01/24	0.4				6.3	9.0	7.2	12.2	83	0				143	15	9
	106	02/07	0.4				6.4	8.3	6.6	12.9	88	0				157	6	6
	141	02/22	0.4	30	44.3	18.9	6.3	7.6	5.7	12.3	84	0	120	93	0.32	185	8	1
	174	03/07	0.4				6.4	8.7	6.8	12.1	83	0				197	7	2
	212	03/21	0.4				6.4	6.3	4.3	12.8	88	0				160	4	3
	250	04/04	0.3				6.2	4.3	2.5	11.7	90	4				100	10	7
	279	04/19	0.3				6.3	6.6	5.0	9.8	85	9				133	13	12
	364	05/02	0.8				6.3	10.8	9.3	8.0	74	12				130	50	39
REVET	398	05/16	1.2	50	32.6	19.0	6.4	9.0	7.5	8.2	77	13	90	65	0.65	138	170	160
	471	05/31	1.2				6.6	12.1	10.1	7.2	76	18				140	80	50
	506	06/13	1.7				6.6	15.9	14.1	6.6	72	20				153	250	210
	628	06/27	3.0				6.8	23.9	21.6	6.0	65	20				173	130	110
	663	07/11	4.0				6.8	32.6	30.8	5.4	60	21				190	900	650
	791	07/25	2.5				6.6	19.4	17.7	5.5	63	23				160	300	190
	830	08/08	1.8	100	36.5	19.5	6.5	12.4	10.9	6.1	64	18	111	75	2.04	148	130	50
	965	08/22	1.2				6.2	10.8	9.1	6.4	68	19				132	500	250
	1007	09/06	1.3				6.6	15.3	13.4	7.4	71	14				150	250	170
	1044	09/19	1.4				6.7	18.1	16.0	7.3	72	15				148	200	100
	1209	10/03	0.9				6.4	11.0	9.4	7.9	70	10				142	110	60
	1248	10/17	0.8				6.5	12.1	10.2	9.0	74	7				180	0	0
	1385	10/31	1.3				6.6	14.2	12.2	8.8	74	8				158	26	4
	1473	11/14	1.2	47	39.6	23.3	6.6	13.3	11.4	9.6	74	4	112	78	0.70	172	45	4
	1530	11/28	1.2				6.3	11.6	10.0	9.8	69	1				187	16	3
	1589	12/12	0.6				6.4	7.7	6.0	11.5	79	0				137	26	1
	1645	12/27	0.6				6.4	7.0	5.3	11.6	82	1				128	14	3
AVG.			1.1	57	38.3	20.2	6.46	12.18	10.37	9.0	75	9	108	78	0.93	153	126	81
MAX.			4.0	100	44.3	23.3	6.8	32.6	30.8	12.9	90	23	120	93	2.04	197	900	650
MIN.			0.3	30	32.6	18.9	6.2	4.3	2.5	5.4	60	0	90	65	0.32	100	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(121) MILL BROOK---@ CHARNOCK HILL RD. REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	0.9	<0.05	<0.01	1.00	0.02	0.03	0.13	<0.004	<0.003	<0.03	<0.001	0.006	0.74	5.41	<0.004	<0.0002	<0.009	0.134

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
MOULTON POND - BELOW DAM

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	38	01/10	0.5				6.1	7.2	5.1			0				90	1	0
	71	01/24	0.7				5.9	7.8	6.1	8.7	63	2				120	2	2
	107	02/07	0.5				5.9	8.4	6.7	9.2	67	2				128	0	0
	142	02/22	0.6	50	40.1	22.4	6.0	8.2	6.1	9.0	63	1	121	95	0.70	180	1	0
	175	03/07	0.6				6.0	8.2	6.3	9.6	67	1				180	2	0
	213	03/21	0.6				5.9	5.3	3.5	10.8	76	1				115	2	2
	251	04/04	0.4				5.9	4.5	2.6	11.9	89	3				80	1	0
	280	04/19	0.5				6.3	5.8	3.9	9.9	87	10				83	1	0
	365	05/02	0.7				6.3	5.6	4.1	8.8	85	14				85	6	3
REVET	399	05/16	1.0	40	17.0	14.3	6.5	5.5	4.2	9.0	89	15	58	39	0.27	82	40	20
	472	05/31	0.6				6.5	7.0	5.1	7.4	78	18				85	30	22
	507	06/13	0.7				6.5	7.7	6.2	7.0	76	20				88	100	60
	629	06/27	1.0				6.4	9.1	7.0	6.0	67	21				90	100	70
	664	07/11	0.8				6.3	8.6	7.1	5.0	59	24				90	130	100
	792	07/25	1.2				6.2	8.9	7.3	5.2	61	24				90	60	40
	831	08/08	1.2	90	20.6	16.4	6.3	11.2	9.8	4.8	53	21	79	52	1.40	100	20	10
	966	08/22	0.8				6.4	9.7	8.3	7.3	80	20				87	150	40
	1008	09/06	0.9				6.3	9.6	7.9	6.4	64	16				88	30	0
	1045	09/19	0.8				6.4	9.5	7.6	6.7	69	17				85	70	40
	1210	10/03	0.7				6.4	9.6	8.0	7.4	68	12				88	20	0
	1249	10/17	0.8				6.4	9.7	8.0	7.9	70	10				90	20	10
	1386	10/31	0.7				6.5	10.5	8.8	8.1	73	11				93	20	8
	1474	11/14	0.6	60	19.3	17.3	6.6	10.5	8.8	9.4	75	6	76	44	0.43	97	36	6
	1531	11/28	0.6				6.6	10.0	8.3	10.8	80	3				100	13	7
	1590	12/12	0.5				6.5	8.8	7.0	11.7	82	1				90	9	1
	1646	12/27	0.8				6.1	6.4	4.6	10.5	81	4				73	30	4
AVG.			0.7	60	24.3	17.6	6.28	8.20	6.48	8.3	73	11	84	58	0.70	99	34	17
MAX.			1.2	90	40.1	22.4	6.6	11.2	9.8	11.9	89	24	121	95	1.40	180	150	100
MIN.			0.4	40	17.0	14.3	5.9	4.5	2.6	4.8	53	0	58	39	0.27	73	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
MOULTON POND - BELOW DAM

										REVET ANALYSIS								
DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	2.1	<0.05	<0.01	0.61	0.01	0.04	0.08	<0.004	<0.003	<0.03	<0.001	0.003	0.21	3.97	<0.004	<0.0002	<0.009	0.017

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(110) LONG + WHITEHALL PONDS--@ OUTLET

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	39	01/10	0.4				6.4	7.5	5.7			0				130	0	0
	72	01/24	0.5				6.3	8.2	6.4	12.4	90	2				150	7	0
	108	02/07	0.4				6.2	8.1	6.5	11.7	80	0				162	4	0
	143	02/22	0.4	25	37.3	17.0	6.3	7.9	5.9	9.0	62	0	105	81	0.17	162	0	0
	176	03/07	0.4				6.2	8.2	6.6	9.5	65	0				157	0	0
	214	03/21	0.5				6.2	7.0	5.3	10.6	75	1				143	2	0
	252	04/04	0.4				6.3	5.4	3.5	11.6	89	4				118	0	0
	281	04/19	0.4				6.5	5.4	3.6	10.8	95	10				135	0	0
	366	05/02	0.4				6.5	5.3	4.0	9.6	93	14				160	2	1
REVET	400	05/16	0.6	20	41.2	14.7	6.5	6.3	5.1	9.0	89	15	94	77	0.13	163	10	0
	473	05/31	0.5				6.8	7.7	5.7	8.2	88	19				157	2	0
	508	06/13	0.4				6.9	8.1	6.4	7.8	87	21				157	3	2
	630	06/27	0.5				6.9	8.3	6.5	7.3	84	23				158	11	6
	665	07/11	0.6				7.0	9.5	7.9	7.3	91	27				178	30	20
	793	07/25	0.8				7.1	9.5	7.9	7.0	87	27				175	85	60
	832	08/08	1.0	38	43.8	17.4	6.8	10.5	9.0	6.2	74	25	108	87	0.55	178	10	10
	967	08/22	1.0				6.7	10.4	9.0	6.9	78	22				172	50	0
	1009	09/06	1.2				6.6	10.0	8.6	6.3	66	18				148	10	6
	1046	09/19	0.6				6.8	9.4	7.6	7.9	85	19				142	22	14
	1211	10/03	0.7				6.7	8.7	7.2	7.6	75	15				145	10	10
	1250	10/17	0.5				6.7	8.4	6.8	8.5	77	11				147	2	2
	1387	10/31	0.4				6.7	8.6	7.4	8.7	79	11				147	9	2
	1475	11/14	0.4	23	37.0	17.5	6.8	8.6	7.0	9.7	82	8	87	67	0.13	150	56	0
	1532	11/28	0.5				6.8	8.3	6.8	10.9	84	4				150	32	0
	1591	12/12	0.4				6.7	8.8	7.1	11.2	81	2				142	9	1
	1647	12/27	0.5				6.5	8.3	6.5	11.2	86	4				133	30	5
AVG.			0.6	27	39.8	16.7	6.61	8.17	6.54	9.1	81	12	99	78	0.25	152	15	5
MAX.			1.2	38	43.8	17.5	7.1	10.5	9.0	12.4	95	27	108	87	0.55	178	85	60
MIN.			0.4	20	37.0	14.7	6.2	5.3	3.5	6.2	62	0	87	67	0.13	118	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(110) LONG + WHITEHALL PONDS--@ OUTLET REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	<0.03	<0.05	<0.01	1.00	0.01	0.04	0.03	<0.004	<0.003	<0.03	<0.001	<0.003	0.10	5.03	<0.004	<0.0002	<0.009	0.023

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(119) DEMON POND---@ OUTLET

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	40	01/10	0.4				6.7	9.6	7.7			0				85	2	0
	73	01/24	0.4				6.7	9.7	7.8	13.2	93	1				90	1	0
	109	02/07	0.4				6.6	9.4	7.5	13.5	92	0				90	0	0
	144	02/22	0.3	27	14.9	15.6	6.5	9.3	7.5	12.2	86	1	66	46	0.04	88	1	0
	177	03/07	0.3				6.3	9.5	8.0	11.1	78	1				88	1	1
	215	03/21	0.4				6.2	7.4	5.8	12.4	87	1				72	2	0
	253	04/04	0.4				6.4	7.9	5.9	11.3	88	5				75	0	0
	282	04/19	0.5				6.7	8.3	6.4	10.9	94	9				82	2	0
	367	05/02	0.5				6.7	8.3	7.2	9.3	88	13				82	14	6
REVET	401	05/16	0.5	25	15.8	15.9	6.7	8.3	7.2	9.2	91	15	51	34	0.05	80	50	30
	474	05/31	0.8				6.8	8.8	6.8	7.5	80	19				80	70	50
	509	06/13	0.6				6.9	9.4	7.8	7.0	78	21				80	50	50
	631	06/27	0.6				7.0	9.8	7.9	7.2	83	23				80	140	100
	833	08/08	0.6	23	14.4	14.3	6.9	9.5	7.8	6.8	77	22	56	34	0.12	80	50	20
	968	08/22	0.5				6.9	9.6	8.2	7.9	88	21				78	150	80
	1010	09/06	0.5				7.0	10.4	8.7	8.4	87	17				80	40	0
	1047	09/19	0.5				7.0	11.0	9.5	7.9	83	18				80	120	80
	1212	10/03	0.5				6.9	11.5	9.8	8.2	77	13				80	40	10
	1251	10/17	0.4				6.9	11.3	9.9	8.5	75	10				80	10	10
	1388	10/31	0.6				7.0	11.3	9.8	9.0	81	11				82	10	3
	1476	11/14	0.5	25	14.0	15.9	6.9	11.5	9.8	9.9	82	7	54	34	0.08	80	60	4
	1533	11/28	0.5				7.0	11.6	9.7	11.4	85	3				82	26	1
	1592	12/12	0.5				6.9	10.9	9.4	11.9	86	2				80	22	13
	1648	12/27	0.6				6.7	9.1	7.3	12.3	92	3				80	36	21
AVG.			0.5	25	14.8	15.4	6.76	9.73	8.06	9.9	85	10	57	37	0.07	81	37	20
MAX.			0.8	27	15.8	15.9	7.0	11.6	9.9	13.5	94	23	66	46	0.12	90	150	100
MIN.			0.3	23	14.0	14.3	6.2	7.4	5.8	6.8	75	0	51	34	0.04	72	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(119) DEMON POND---@ OUTLET

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	REVET ANALYSIS NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	<0.03	<0.05	<0.01	0.71	0.02	0.06	0.10	<0.004	<0.003	<0.03	0.001	0.005	0.18	4.26	<0.004	<0.0002	<0.009	0.007

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(102) PARKER BROOK--NEAR MOUTH

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	41	01/10	0.7				6.4	5.4	3.5			0				88	0	0
	74	01/24	0.6				6.4	5.3	3.8	13.8	94	0				92	10	1
	110	02/07	0.5				6.4	5.3	3.8	14.0	98	1				93	0	0
	145	02/22	0.6	45	18.6	9.5	6.3	4.4	2.6	13.2	93	1	68	47	0.42	80	5	3
	178	03/07	0.6				6.5	6.0	4.3	13.4	97	2				92	1	0
	216	03/21	0.5				6.3	4.0	2.0	13.7	99	2				83	1	1
	254	04/04	0.5				5.9	2.9	1.2	13.2	101	4				63	1	0
	283	04/19	0.5				6.3	3.8	2.1	11.9	100	8				100	110	90
	368	05/02	0.6				6.2	3.9	2.4	11.1	96	9				105	12	9
REVET	402	05/16	1.5	65	24.3	14.1	6.2	4.5	3.0	10.7	94	10	83	58	1.10	97	290	240
	475	05/31	1.0				6.5	5.6	3.8	9.4	91	14				107	30	10
	510	06/13	1.5				6.5	6.6	5.1	9.2	91	15				103	110	40
	632	06/27	2.0				6.7	7.0	5.1	9.2	91	15				110	70	40
	666	07/11	2.3				6.7	7.9	6.3	9.2	91	15				115	80	30
	794	07/25	1.7				6.5	6.4	5.0	8.2	86	18				108	250	130
	834	08/08	2.0	75	41.1	15.4	6.6	7.0	5.6	9.4	91	14	85	61	1.00	110	60	30
	969	08/22	1.7				6.0	4.5	2.9	8.8	92	18				70	450	290
	1011	09/06	1.8				6.7	7.0	5.4	10.1	91	11				103	50	10
	1048	09/19	1.5				6.6	6.7	4.9	10.2	92	11				97	90	60
	1213	10/03	1.3				6.5	5.9	4.3	11.0	91	7				98	40	10
	1252	10/17	1.2				6.4	5.3	3.8	11.5	90	5				100	40	10
	1389	10/31	0.9				6.6	6.6	5.3	11.2	95	8				102	14	3
	1477	11/14	0.9	47	24.0	12.0	6.6	6.4	4.8	12.3	94	4	76	57	0.55	102	28	0
	1534	11/28	2.8				6.3	4.7	3.3	12.7	89	1				98	150	50
	1593	12/12	0.7				6.2	4.1	2.4	13.4	92	0				75	13	0
	1649	12/27	0.6				6.2	3.7	2.5	13.1	90	0				70	21	1
AVG.			1.2	58	27.0	12.8	6.40	5.42	3.82	11.4	93	7	78	56	0.77	95	74	41
MAX.			2.8	75	41.1	15.4	6.7	7.9	6.3	14.0	101	18	85	61	1.10	115	450	290
MIN.			0.5	45	18.6	9.5	5.9	2.9	1.2	8.2	86	0	68	47	0.42	63	0	0

QUABBIN LABORATORY RECORDS 1994
WARE RIVER AND TRIBUTARIES
(102) PARKER BROOK--NEAR MOUTH

										REVET ANALYSIS								
DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/16	<0.03	<0.05	<0.01	0.50	0.03	0.04	0.37	<0.004	0.006	<0.03	0.005	0.026	1.68	3.37	<0.004	<0.0002	<0.009	0.040

SPECIAL INVESTIGATIONS

QUABBIN LABORATORY RECORDS 1994

M.D.C. DRINKING WATER -- NEW SALEM FORESTRY WELL @ TAP

	SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	91	01/31	0.3	5	44.0	21.0	6.2	13.1		11.2	86	4			0.04	195	0	0
REVET	286	04/19	0.2	5	83.3	21.3	6.0	8.0					181	162	0.06	320		
REVET		04/19																
REVET		04/19																
	493	06/08															0	0
	513	06/14	0.2	5	48.8	20.3	6.17	12.4							0.04	200	4	0
	1363	10/24															9	0

M.D.C. DRINKING WATER -- VISITOR CENTER BATHROOM @ TAP

REVET		04/19																
	458	05/23															0	0
	855	08/16															0	0
	1539	11/29															0	0

M.D.C. DRINKING WATER -- VISITOR CENTER DRINKING FOUNTAIN

	1188	09/27															0	0
	1368	10/24															0	0
	1657	12/27															0	0

M.D.C. DRINKING WATER @ MAIN OFFICE FOUNTAIN

REVET		04/19																
	1183	09/27															0	0
	1364	10/24															0	0
	1540	11/29															0	0
	1653	12/27															0	0

M.D.C. DRINKING WATER @ ENGINEERING TAP

REVET		04/19																

M.D.C. DRINKING WATER @ RESIDENCE #1

REVET		04/19																
REVET		04/19																
	1184	09/27															0	0
	1365	10/24															0	0
	1541	11/29															0	0
	1654	12/27															0	0

QUABBIN LABORATORY RECORDS 1994 REVET ANALYSIS

M.D.C. DRINKING WATER -- NEW SALEM WELL @ TAP

DATE SAMP	NIT-RITE -N	NIT-RATE -N	SULFATES	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	CHRO-MIUM	MANG-ANESE	POTASS-IUM	SODIUM
04/19 FIRST DRAW					0.948		0.008					
04/19 SECOND DRAW	<0.01	0.32	8.6		0.195		0.001			0.013	0.59	48.0
04/19	SAMPLE COLLECTED FOR VOC:											
	TWO COMPOUNDS WHERE ABOVE DETECTION LIMITS -- ACETONE 7 ug/L -- CHLOROFORM 1 ug/L -- METHOD 624											

M.D.C. DRINKING WATER -- VISITOR CENTER BATHROOM @ TAP

04/19 FIRST DRAW ----------	0.059

M.D.C. DRINKING WATER @ MAIN OFFICE FOUNTAIN

04/19 FIRST DRAW ----------	0.027

M.D.C. DRINKING WATER @ ENGINEERING TAP

04/19 FIRST DRAW ----------	0.679

M.D.C. DRINKING WATER @ RESIDENCE #1

04/19 FIRST DRAW ----------	0.274	0.003
04/19 30 SEC. AFTER FIRST DRAW -------	0.066	0.002

QUABBIN LABORATORY RECORDS 1994

M.D.C. DRINKING WATER -- STOCK ROOM FOUNTAIN

SAMP NO.	DATE SAMP	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
1185	09/27															0	0
1366	10/24															0	0
1542	11/29															0	0
1655	12/27															0	0

M.D.C. DRINKING WATER -- CEMETERY TAP

1186	09/27															0	0
1367	10/24															0	0
1543	11/29															0	0
1656	12/27															0	0

M.D.C. DRINKING WATER -- GARAGE TAP

1187	09/27															0	0

M.D.C. DRINKING WATER -- WARE RIVER OFFICE

1051	09/19								3.2	30	13					0	0
1537	11/28	1.2	5	71.1	82.8	7.7	40.5		3.7	32	9		0.15	370		0	0

QUABBIN LABORATORY RECORDS 1994
WATERFOWL BACTERIA SAMPLING @ QUABBIN RESERVOIR

SAMP NO.	DATE SAMP	DEPTH M	SAMPLE SITE	LOCATION	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
1144	09/21	0.5	1	INTAKE AREA	0	0
1145	"	14.0	1	INTAKE AREA	1	0
1146	"	20.0	1	INTAKE AREA	0	0
1147	"	29.0	1	INTAKE AREA	0	0
1148	09/21	0.5	2	SEE MAP	0	0
1149	"	14.0	2	SEE MAP	0	0
1150	09/21	0.5	3	SEE MAP	0	0
1151	"	14.0	3	SEE MAP	1	0
1152	"	20.0	3	SEE MAP	0	0
1153	"	39.0	3	SEE MAP	0	0
1154	09/21	0.5	4	SEE MAP	0	0
1155	"	14.0	4	SEE MAP	0	0
1156	"	20.0	4	SEE MAP	0	0
1157	"	29.0	4	SEE MAP	0	0
1158	09/21	0.5	5	202 BOUY	0	0
1159	"	10.0	5	202 BOUY	0	0
1160	"	14.0	5	202 BOUY	1	0
1161	"	20.0	5	202 BOUY	0	0
1162	"	30.0	5	202 BOUY	0	0
1163	"	39.0	5	202 BOUY	0	0
1164	09/21	0.5	GULL 1	S.E. OF GATE #8 ISLAND	0	0
1165	"	14.0	GULL 1	S.E. OF GATE #8 ISLAND	1	0
1166	09/21	0.5	GULL 2	S. OF GATE #8 ISLAND	1	0

MAP IS AVAILABLE FOR CLARIFICATION OF SITE LOCATIONS

GIARDIA SAMPLE SITES

SAMP NO.	DATE SAMP		SAMPLE SITE	pH	TEMP. DEG.C.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
1218	10/05	PRE	POTTAPAUG POND	5.87	14	26	10
1371	10/26	PRE	WINSOR DAM BOAT COVE - BEAVER LODGE	6.60	14	7	0
1372	10/26	POST	WINSOR DAM BOAT COVE - BEAVER LODGE	5.55	14		
1454	11/09	PRE	HOP BROOK FROM GATE 22 RD.	6.87	8	52	LA
1455	11/09	POST	HOP BROOK FROM GATE 22 RD.	6.88	8	30	LA
1482	11/15	PRE	CADWELL CREEK	6.36	9	178	0
1483	11/15	POST	CADWELL CREEK	6.39	9	242	0

QUABBIN LABORATORY RECORDS 1994
INVESTIGATIVE SAMPLES

SAMP NO.	DATE SAMP	LOCATION	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
198	03/16	Brook crossing Rt.9 and Ware entrance to Quabbin Park.	70	30
199	"	1st culvert on Monson Turnpike Rd., near Cemetery headquarters.	90	40
200	"	2nd culvert, near Mobil Home Park on Monson Tpk. Rd.	TNTC	2,000

BOAT COVE BROOK

SAMP NO.	DATE SAMP	SITE	LOCATION	DISS OXYGEN PPM	%SAT	TEMP. DEG.C.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
856	08/16	BC1	100 feet upstream				400	160
857	"	BC2	100 feet upstream culvert	8.4	83	15	300	80
858	"	BC3	500-600 feet. Base of veg. wetland	7.6	75	15	120	10
859	"	BC4	1100 feet, upstream culvert, downstream of foot path	8.2	82	16	100	10
860	"	BC5	200 feet downstream of Beaver Pond	6.9	71	17	140	50

FINN PARK, LOT 10, @ DEMON POND

SAMP NO.	DATE SAMP	SITE	LOCATION		COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
991	08/31	LOT 10	LOT 10 WELL	BACT. PER 100 mL SAMPLE	TNTC	175
992	"	LOT 10	LOT 10 WELL	BACT. DILUTION TIMES 10	500	230
992	"	LOT 10	LOT 10 WELL	BACT. DILUTION TIMES 100	1,600	100
992	"	LOT 10	LOT 10 WELL	BACT. DILUTION TIMES 1000	3,000	1,000

SAMP NO.	DATE SAMP	SITE	LOCATION	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
1192	09/29	12N	Near Shaft #12	28	5
1193	"	12R	Near Shaft #12	17	1
1194	"	12S	Near Shaft #12	18	1
1195	"	BP	Beaver Pond, South of Fitzpatrik Rd.	100	18
1196	"		Near Shaft #12, "Fecal Broth" Coyote Scat	TNTC	TNTC

SAMP NO.	DATE SAMP	LOCATION	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	FECAL
1599	12/14	Rt.122 -- Confluence	41	3
1600	"	West St. crossing	96	2
1601	"	Spring St. crossing	110	7
1602	"	Rt.122 Brook, Petersham	500	95

QUABBIN RESERVOIR WATER QUALITY DATA

QUABBIN LABORATORY RECORDS 1994
(202) WINSOR DAM---RESERVOIR

	SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	315	04/27	0.0								RES.ELEV 529.63		DEPTH TO C.V.A. INTAKE 18.9 METERS					0	0
	316	"	0.5	0.3	5	6.5	7.9	6.63	4.4	2.8	11.78	95	5.90	33	19	0.03	43		
	317	"	3.0					6.58			11.79	93	5.73				43		
	318	"	6.0					6.55			11.95	95	5.52				43		
	319	"	9.0					6.54			11.99	95	5.42				42		
	320	"	12.0					6.52			11.83	94	5.35				42		
	321	"	15.0					6.51			11.94	93	5.17				42		
	322	"	18.0					6.49			11.93	93	5.02				42		
	323	"	21.0					6.47			11.92	93	4.89				42		
	324	"	24.0					6.45			11.92	93	4.83				42		
	325	"	27.0					6.45			11.89	93	4.81				42		
	326	"	30.0					6.44			11.88	93	4.77				42		
	327	"	33.0					6.44			11.90	92	4.74				42		
	328	"	36.0					6.42			11.87	92	4.73				42		
	329	"	39.0					6.43			11.87	92	4.70				42		
	330	"	40.0	0.2	5	6.5	8.5	6.43	3.7	2.0	11.91	92	4.67	33	19	0.02	42		
	331	"	41.0					6.42			11.85	92	4.65				42		
		BOTTOM	41.3	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
	405	05/18	0.0								RES.ELEV 530.14		DEPTH TO C.V.A. INTAKE 19.05 METERS					1	0
REVET	406	"	0.5	0.3	5	8.2	10.8	6.84	4.2	2.5	11.48	100	9.72	27	21	0.03	41		
	407	"	3.0					6.81			11.53	101	9.55				42		
	408	"	6.0					6.80			11.60	101	9.50				42		
	409	"	9.0					6.80			11.61	101	9.44				42		
	410	"	12.0					6.80			11.60	101	9.42				42		
	411	"	15.0					6.79			11.61	101	9.27				42		
	412	"	18.0					6.77			11.64	101	9.23				42		
	413	"	21.0					6.77			11.72	99	8.25				42		
	414	"	24.0					6.70			11.90	99	7.32				42		
	415	"	27.0					6.60			11.79	97	6.87				42		
	416	"	30.0					6.54			11.75	96	6.70				42		
	417	"	33.0					6.50			11.75	96	6.59				42		
	418	"	36.0					6.48			11.75	96	6.52				41		
	419	"	39.0					6.47			11.73	95	6.49				41		
REVET	420	"	40.0	0.2	5	7.6	9.5	6.46	3.8	2.3	11.74	96	6.47	29	21	0.02	41		
	421	"	41.0					6.45			11.73	95	6.40				42		
		BOTTOM	41.8	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
	528	06/23	0.0								RES.ELEV 529.26		DEPTH TO C.V.A. INTAKE 18.78 METERS					0	0
	529	"	1.0					6.92			8.84	97	20.70				43		
	530	"	2.0					6.91			8.88	98	20.66				42		
	531	"	3.0					6.92			8.89	98	20.63				42		
	532	"	4.0	0.3	5	5.7	7.6	6.92	4.4	2.8	8.91	98	20.51	28	20	0.02	42		
	533	"	5.0					6.93			8.98	99	20.38				42		
	534	"	6.0					6.93			8.96	99	20.33				42		
	535	"	7.0					6.92			8.97	98	20.21				42		
	536	"	8.0					7.06			10.25	103	16.10				42		
	537	"	9.0					7.07			10.45	104	15.36				41		
	538	"	10.0					7.07			10.59	103	14.70				41		
	539	"	11.0					7.09			10.70	103	14.10				42		
	540	"	12.0					7.08			10.85	104	13.57				41		
	541	"	13.0					7.06			10.91	103	13.06				41		
	542	"	14.0					7.05			10.96	102	12.50				42		
	543	"	15.0					6.98			11.00	102	12.07				42		
	544	"	16.0					6.94			11.08	101	11.50				41		

CONTINUED

ABBIN LABORATORY RECORDS 1994

202) WINSOR DAM---RESERVOIR

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/18	<0.03	<0.05	<0.01	0.29	0.01	0.03	<0.02	<0.004	<0.003	<0.03	<0.001	<0.003	0.010	2.14	<0.004	<0.0002	<0.009	0.008
05/18	<0.03	<0.05	<0.01	0.28	0.01	0.03	<0.02	<0.004	<0.003	<0.03	<0.001	0.005	0.010	2.16	<0.004	<0.0002	<0.009	0.009

(202) WINSOR DAM---RESERVOIR

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
545	06/23	17.0					6.87			11.05	100	11.15				42		
546	"	18.0					6.83			10.94	99	10.80				42		
547	"	19.0					6.78			10.91	98	10.44				41		
548	"	20.0					6.73			10.89	96	10.06				42		
549	"	21.0					6.66			10.85	96	9.78				42		
550	"	22.0					6.59			10.79	94	9.55				42		
551	"	23.0					6.56			10.77	94	9.32				42		
552	"	24.0					6.54			10.75	93	9.12				42		
553	"	25.0					6.49			10.71	93	8.90				42		
554	"	26.0	0.3	5	6.0	9.8	6.47	3.6	1.9	10.69	91	8.75	29	22	0.02	42		
555	"	27.0					6.44			10.64	91	8.59				42		
556	"	28.0					6.40			10.47	90	8.42				42		
557	"	29.0					6.39			10.46	89	8.30				42		
558	"	30.0					6.36			10.45	88	8.21				42		
559	"	31.0					6.35			10.45	88	8.18				42		
560	"	32.0					6.34			10.39	88	8.08				42		
561	"	33.0					6.32			10.34	87	8.02				42		
562	"	34.0					6.28			10.20	86	7.88				42		
563	"	35.0					6.27			10.06	85	7.82				42		
564	"	36.0					6.23			9.98	83	7.75				42		
565	"	37.0					6.21			9.98	83	7.71				42		
566	"	38.0					6.21			9.98	83	7.68				43		
567	"	39.0					6.21			9.98	83	7.66				43		
568	"	40.0					6.20			9.97	83	7.66				42		
569	"	41.0					6.20			9.97	83	7.64				42		
	BOTTOM	41.5																

HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.

671	07/13	0.0								RES.ELEV 528.50		DEPTH TO C.V.A. INTAKE 18.55 METERS					0	0
672	"	1.0					6.79			8.15	96	24.71				42		
673	"	2.0	0.3	5	6.2	8.1	6.81	4.4	2.9	8.18	97	24.69	29	17	0.03	42		
674	"	3.0					6.83			8.21	97	24.50				42		
675	"	4.0					6.84			8.39	98	24.01				42		
676	"	5.0					6.93			8.84	101	22.66				42		
677	"	6.0					6.96			9.14	102	21.38				42		
678	"	7.0					6.98			9.34	103	20.74				42		
679	"	8.0					7.02			9.70	105	19.57				42		
680	"	9.0					7.05			9.96	106	18.54				42		
681	"	10.0					7.09			10.07	106	17.98				42		
682	"	11.0					7.13			10.31	106	17.13				42		
683	"	12.0					7.15			10.67	107	15.77				42		
684	"	13.0					7.12			10.84	107	14.84				42		
685	"	14.0					7.12			11.08	107	13.95				42		
686	"	15.0					7.08			11.06	104	13.10				42		
687	"	16.0					7.01			11.05	103	12.48				42		
688	"	17.0					6.92			10.88	100	12.04				42		
689	"	18.0					6.82			10.87	100	11.82				42		
690	"	19.0					6.72			10.73	98	11.46				42		
691	"	20.0					6.63			10.63	96	11.24				42		
692	"	21.0					6.61			10.59	96	11.07				42		
693	"	22.0					6.55			10.53	95	10.87				42		
694	"	23.0					6.52			10.51	94	10.63				42		
695	"	24.0					6.48			10.40	93	10.44				42		
696	"	25.0	0.3	5	6.5	7.9	6.45	4.0	2.2	10.39	92	10.23	27	16	0.02	42		
697	"	26.0					6.43			10.40	92	9.96				42		
698	"	27.0					6.41			10.36	91	9.83				42		

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SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
699	07/13	28.0					6.38			10.31	90	9.46				42		
700	"	29.0					6.34			10.18	89	9.28				42		
701	"	30.0					6.32			10.16	88	9.15				42		
702	"	31.0					6.27			9.99	86	9.00				43		
703	"	32.0					6.25			9.84	85	8.85				43		
704	"	33.0					6.23			9.84	84	8.67				42		
705	"	34.0					6.22			9.84	84	8.58				42		
706	"	35.0					6.19			9.76	83	8.47				42		
707	"	36.0					6.18			9.67	83	8.39				42		
708	"	37.0					6.16			9.64	82	8.32				42		
709	"	38.0					6.14			9.57	82	8.32				42		
710	"	39.0					6.13			9.54	82	8.27				42		
711	"	40.0					6.12			9.38	79	8.21				42		
712	"	41.0					6.09			9.17	77	8.11				42		
	BOTTOM	41.2		HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.														
862	08/17	0.0								RES.ELEV 527.45		DEPTH TO C.V.A. INTAKE 18.23 METERS					0	0
863	"	1.0					6.67			8.22	94	22.73				43		
864	"	2.0					6.73			8.22	94	22.73				43		
865	"	3.0					6.77			8.25	94	22.71				43		
866	"	4.0					6.80			8.25	94	22.71				43		
867	"	5.0	0.3	5	8.6	9.7	6.80	3.7	2.1	8.25	94	22.70	28	16	0.03	43		
868	"	6.0					6.83			8.27	94	22.70				43		
869	"	7.0					6.84			8.24	94	22.69				43		
870	"	8.0					6.85			8.24	94	22.67				43		
871	"	9.0					6.85			8.24	94	22.64				42		
872	"	10.0					6.86			8.23	94	22.50				42		
873	"	11.0					6.84			9.26	102	20.26				43		
874	"	12.0					6.85			9.83	104	18.57				43		
875	"	13.0					6.89			10.22	105	16.96				43		
876	"	14.0					6.91			10.54	105	15.25				43		
877	"	15.0					6.91			10.74	105	14.38				42		
878	"	16.0					6.91			10.79	104	14.00				43		
879	"	17.0					6.93			10.95	104	13.34				43		
880	"	18.0					6.93			11.03	104	12.83				43		
881	"	19.0					6.90			11.00	103	12.43				42		
882	"	20.0					6.70			10.14	94	12.02				43		
883	"	21.0					6.53			9.63	88	11.68				43		
884	"	22.0					6.41			9.40	86	11.50				43		
885	"	23.0					6.35			9.35	85	11.34				43		
886	"	24.0					6.30			9.34	84	11.11				42		
887	"	25.0					6.28			9.25	84	10.94				43		
888	"	26.0					6.27			9.24	83	10.73				42		
889	"	27.0					6.26			9.19	82	10.54				43		
890	"	28.0	0.3	5	7.3	10.7	6.25	3.8	2.5	9.20	81	10.15	27	18	0.02	43		
891	"	29.0					6.21			9.00	79	9.90				43		
892	"	30.0					6.18			8.96	78	9.67				43		
893	"	31.0					6.17			8.80	77	9.52				43		
894	"	32.0					6.14			8.66	76	9.35				43		
895	"	33.0					6.13			8.50	74	9.21				43		
896	"	34.0					6.11			8.24	71	9.08				42		
897	"	35.0					6.08			8.20	71	8.90				43		
898	"	36.0					6.07			8.16	71	8.78				43		
899	"	37.0					6.05			8.11	69	8.71				42		
900	"	38.0					6.03			7.80	67	8.63				43		

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SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
901	08/17	39.0					6.00			7.66	65	8.59				43		
902	"	40.0					6.00			7.65	65	8.55				43		
903	"	41.0					5.99			7.49	64	8.48				43		
	BOTTOM	41.3	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1054	09/21	0.0								RES.ELEV 526.50		DEPTH TO C.V.A. INTAKE 17.94 METERS					0	0
1055	"	1.0					6.68			8.65	93	19.50				42		
1056	"	2.0					6.71			8.67	94	19.50				42		
1057	"	3.0					6.72			8.70	94	19.48				42		
1058	"	4.0					6.73			8.70	94	19.48				42		
1059	"	5.0					6.75			8.70	94	19.47				42		
1060	"	6.0	0.3	5	6.0	9.0	6.77	3.8	2.2	8.70	94	19.46	31	21	0.03	42		
1061	"	7.0					6.77			8.71	94	19.46				42		
1062	"	8.0					6.77			8.71	94	19.46				42		
1063	"	9.0					6.78			8.68	94	19.46				42		
1064	"	10.0					6.78			8.68	94	19.46				42		
1065	"	11.0					6.78			8.69	94	19.45				42		
1066	"	12.0					6.78			8.68	94	19.42				42		
1067	"	13.0					6.76			8.64	93	19.25				42		
1068	"	14.0					6.66			8.85	93	17.87				43		
1069	"	15.0					6.58			9.00	94	17.34				43		
1070	"	16.0					6.51			9.34	94	16.11				43		
1071	"	17.0					6.46			9.36	92	15.00				43		
1072	"	18.0					6.38			9.16	88	13.96				43		
1073	"	19.0					6.28			8.95	85	13.34				43		
1074	"	20.0					6.24			8.75	83	12.78				43		
1075	"	21.0					6.21			8.73	82	12.45				43		
1076	"	22.0					6.20			8.68	80	12.13				43		
1077	"	23.0					6.17			8.55	79	11.94				42		
1078	"	24.0					6.15			8.45	78	11.76				42		
1079	"	25.0					6.13			8.39	77	11.58				43		
1080	"	26.0					6.12			8.25	75	11.42				43		
1081	"	27.0					6.10			8.15	74	11.19				43		
1082	"	28.0					6.09			8.15	74	11.00				43		
1083	"	29.0					6.09			8.15	73	10.74				43		
1084	"	30.0	0.3	5	6.0	9.3	6.06	4.0	2.7	8.01	72	10.46	29	20	0.03	43		
1085	"	31.0					6.05			7.80	69	10.14				43		
1086	"	32.0					6.04			7.62	67	9.86				43		
1087	"	33.0					6.01			7.36	64	9.58				43		
1088	"	34.0					6.01			7.38	65	9.41				43		
1089	"	35.0					6.00			7.41	65	9.29				43		
1090	"	36.0					5.98			7.27	63	9.11				43		
1091	"	37.0					5.97			6.76	58	8.96				43		
1092	"	38.0					5.94			6.68	58	8.85				43		
1093	"	39.0					5.92			6.45	56	8.78				43		
1094	"	40.0					5.91			6.23	53	8.73				43		
1095	"	41.0					5.90			6.05	52	8.65				43		
	BOTTOM	41.2	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1257	10/19	0.0								RES.ELEV 524.71		DEPTH TO C.V.A. INTAKE 17.39 METERS					4	0
1258	"	1.0	0.3	5	5.5	9.6	6.67	4.0	2.6	9.32	92	15.25	28	18	0.05	44		
1259	"	2.0					6.67			9.34	92	15.14				44		
1260	"	3.0					6.68			9.37	92	15.15				44		
1261	"	4.0					6.68			9.37	92	15.08				44		
1262	"	5.0					6.68			9.39	92	15.06				44		

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QUABBIN LABORATORY RECORDS 1994

(202) WINSOR DAM---RESERVOIR

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
1263	10/19	6.0					6.68			9.39	92	15.06				44		
1264	"	7.0					6.68			9.38	92	15.06				43		
1265	"	8.0					6.68			9.39	92	15.05				43		
1266	"	9.0					6.69			9.39	92	15.05				43		
1267	"	10.0					6.68			9.40	93	15.05				43		
1268	"	11.0					6.68			9.40	93	15.02				43		
1269	"	12.0					6.68			9.40	93	15.02				43		
1270	"	13.0					6.68			9.40	93	15.01				42		
1271	"	14.0					6.68			9.40	93	15.00				43		
1272	"	15.0					6.70			9.40	93	15.00				43		
1273	"	16.0					6.70			9.39	92	15.00				43		
1274	"	17.0					6.69			9.37	92	14.98				43		
1275	"	18.0					6.67			9.35	92	14.95				43		
1276	"	19.0					6.66			9.28	91	14.90				43		
1277	"	20.0					6.63			9.19	91	14.79				43		
1278	"	21.0					6.56			8.74	85	14.50				43		
1279	"	22.0					6.09			7.42	70	12.86				43		
1280	"	23.0					6.05			7.20	66	12.16				43		
1281	"	24.0					6.02			7.35	68	11.85				43		
1282	"	25.0					6.01			7.34	68	11.76				43		
1283	"	26.0					6.01			7.39	68	11.59				43		
1284	"	27.0					6.01			7.41	68	11.43				43		
1285	"	28.0					6.00			7.39	67	11.20				43		
1286	"	29.0					6.00			7.28	66	10.89				43		
1287	"	30.0					6.00			7.25	65	10.71				43		
1288	"	31.0					5.99			7.16	64	10.58				43		
1289	"	32.0					5.99			7.02	62	10.25				43		
1290	"	33.0					5.96			6.88	61	10.03				43		
1291	"	34.0					5.96			6.72	59	9.78				43		
1292	"	35.0					5.94			6.50	57	9.50				43		
1293	"	36.0					5.93			6.04	53	9.31				43		
1294	"	37.0					5.91			5.71	49	9.17				43		
1295	"	38.0					5.90			5.66	49	9.09				43		
1296	"	39.0	0.3	5	6.0	9.7	5.89	4.2	2.7	5.41	47	8.98	28	20	0.06	43		
1297	"	40.0					5.88			5.28	46	8.91				43		
	BOTTOM	40.3	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1395	11/03	0.0								RES.ELEV 523.96		DEPTH TO C.V.A. INTAKE 17.17 METERS					8	3
1396	"	0.5	0.3	5	6.2	8.0	6.54	4.1	2.6	9.24	88	13.69	24	14	0.04	45		
1397	"	3.0					6.51			9.26	88	13.68				45		
1398	"	6.0					6.51			9.26	88	13.66				44		
1399	"	9.0					6.51			9.27	88	13.65				44		
1400	"	12.0					6.52			9.27	88	13.64				43		
1401	"	15.0					6.52			9.29	89	13.63				43		
1402	"	18.0					6.52			9.29	89	13.62				43		
1403	"	21.0					6.52			9.26	88	13.59				43		
1404	"	24.0					6.48			8.86	85	13.55				43		
1405	"	27.0					5.96			6.52	60	11.48				43		
1406	"	30.0					5.95			6.31	56	10.40				43		
1407	"	33.0					5.92			6.01	53	9.82				43		
1408	"	36.0	0.3	5	6.2	8.1	5.91	3.9	2.5	5.32	46	9.34	25	16	0.05	44		
1409	"	37.0					5.90			5.23	46	9.26				44		
	BOTTOM	37.5	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
AVG.			0.3	5	6.6	9.0	6.49	4.00	2.46	9.39	87	12.34	28	19	0.03	42	2	0
MAX.			0.3	5	8.6	10.8	7.15	4.4	2.9	11.99	107	24.71	33	22	0.06	45	8	3
MIN.			0.2	5	5.5	7.6	5.88	3.6	1.9	5.23	46	4.65	24	14	0.02	41	0	0

QUABBIN LABORATORY RECORDS 1994
(206) SHAFT #12---RESERVOIR

	SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	332	04/27	0.0								RES.ELEV 529.63		DEPTH TO SHAFT 12 INTAKE 24.6 METERS					0	0
	333	"	0.5	0.3	5	6.0	7.7	6.71	4.4	3.0	12.13	99	6.58	33	17	0.03	42		
	334	"	3.0					6.66			12.19	98	6.23				42		
	335	"	6.0					6.64			12.26	98	5.76				42		
	336	"	9.0					6.62			12.34	98	5.62				42		
	337	"	12.0					6.60			12.29	97	5.50				42		
	338	"	15.0					6.60			12.30	97	5.44				42		
	339	"	18.0					6.58			12.31	97	5.40				42		
	340	"	21.0					6.57			12.26	97	5.32				42		
	341	"	24.0					6.56			12.25	97	5.27				42		
	342	"	27.0	0.3	5	6.0	7.4	6.55	3.9	2.1	12.26	96	5.22	32	17	0.02	42		
		BOTTOM	28.0		HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.														
	422	05/18	0.0								RES.ELEV 530.14		DEPTH TO SHAFT 12 INTAKE 24.73 METERS					0	0
REVET	423	"	0.5	0.3	5	7.7	8.1	6.78	4.5	2.9	11.66	102	9.37	28	19	0.02	41		
	424	"	3.0					6.76			11.68	102	9.29				41		
	425	"	6.0					6.77			11.73	101	9.20				41		
	426	"	9.0					6.76			11.88	103	8.83				41		
	427	"	12.0					6.76			11.94	102	8.60				41		
	428	"	15.0					6.74			11.93	102	8.49				41		
	429	"	18.0					6.69			11.92	101	8.03				42		
	430	"	21.0					6.59			11.89	99	7.54				42		
	431	"	24.0					6.54			11.89	98	7.08				41		
	432	"	27.0					6.48			11.85	96	6.63				42		
REVET	433	"	28.0	0.3	5	7.8	9.0	6.43	3.9	2.0	11.82	96	6.52	28	20	0.03	42		
		BOTTOM	29.0		HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.														
	570	06/23	0.0								RES.ELEV 529.26		DEPTH TO SHAFT 12 INTAKE 24.46 METERS					0	0
	571	"	1.0					6.86			8.78	97	20.74				42		
	572	"	2.0					6.86			8.77	96	20.71				42		
	573	"	3.0					6.87			8.80	97	20.71				42		
	574	"	4.0	0.3	5	6.1	8.7	6.87	4.3	2.8	8.80	97	20.69	30	20	0.02	42		
	575	"	5.0					6.87			8.79	97	20.67				42		
	576	"	6.0					6.86			8.79	97	20.62				42		
	577	"	7.0					6.86			8.80	97	20.50				42		
	578	"	8.0					6.95			9.33	100	19.20				42		
	579	"	9.0					6.99			9.54	101	18.50				42		
	580	"	10.0					6.99			9.63	101	18.20				42		
	581	"	11.0					7.02			9.76	102	17.58				41		
	582	"	12.0					7.04			10.05	103	16.42				41		
	583	"	13.0					7.04			10.49	103	14.78				41		
	584	"	14.0					7.00			10.69	102	13.74				42		
	585	"	15.0					6.83			10.72	99	12.00				42		
	586	"	16.0					6.74			10.70	98	11.52				42		
	587	"	17.0					6.65			10.65	96	11.13				42		
	588	"	18.0	0.3	5	5.8	8.0	6.60	4.2	2.5	10.61	96	10.94	30	20	0.03	42		
	589	"	19.0					6.57			10.61	96	10.85				42		
	590	"	20.0					6.56			10.52	94	10.60				42		
	591	"	21.0					6.47			10.40	93	10.30				41		
	592	"	22.0					6.43			10.32	91	10.16				42		
	593	"	23.0					6.41			10.30	91	10:02				42		
	594	"	24.0					6.39			10.30	91	9.90				42		
	595	"	25.0					6.37			10.20	89	9.70				42		
	596	"	26.0					6.35			10.18	89	9.58				42		
		BOTTOM	26.5		HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.														

QUABBIN LABORATORY RECORDS 1994
(206) SHAFT #12---RESERVOIR

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/18	<0.03	<0.05	<0.01	0.26	0.01	0.03	0.03	<0.004	<0.003	<0.03	<0.001	<0.003	0.13	2.21	<0.004	<0.0002	<0.009	0.007
05/18	0.38	<0.05	<0.01	0.31	0.01	0.03	<0.02	<0.004	<0.003	<0.03	<0.001	<0.003	0.010	2.18	<0.004	<0.0002	<0.009	0.008

(206) SHAFT #12---RESERVOIR

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.P. TOTAL	COLIFORM COLONIES PER 100 ML. M.P. FECAL
713	07/13	0.0								RES.ELEV 528.50		DEPTH TO SHAFT 12 INTAKE 24.23 METERS					1	0
714	"	1.0					6.84			8.13	96	24.54				42		
715	"	2.0					6.84			8.13	96	24.51				42		
716	"	3.0					6.83			8.15	96	24.47				42		
717	"	4.0	0.3	5	6.5	8.0	6.83	4.2	2.7	8.16	96	24.40	30	17	0.02	42		
718	"	5.0					6.83			8.17	96	24.35				42		
719	"	6.0					6.83			8.18	97	24.29				42		
720	"	7.0					6.84			8:21	96	24.22				42		
721	"	8.0					6.84			8.26	97	24.10				42		
722	"	9.0					6.87			8.45	95	22.16				42		
723	"	10.0					6.99			10.25	105	16.74				42		
724	"	11.0					6.98			10.37	104	15.81				42		
725	"	12.0					6.92			10.52	104	14.92				42		
726	"	13.0					6.89			10.68	103	13.96				42		
727	"	14.0					6.86			10.76	103	13.35				42		
728	"	15.0					6.84			10.68	101	13.00				42		
729	"	16.0					6.76			10.60	99	12.45				42		
730	"	17.0					6.67			10.45	96	12.12				42		
731	"	18.0					6.57			10.20	94	11.87				42		
732	"	19.0					6.49			10.03	92	11.56				42		
733	"	20.0	0.3	5	6.5	8.0	6.43	4.4	2.8	9.91	91	11.34	29	17	0.02	42		
734	"	21.0					6.37			9.76	88	11.16				42		
735	"	22.0					6.34			9.66	87	10.98				42		
736	"	23.0					6.31			9.62	86	10.70				42		
737	"	24.0					6.27			9.47	85	10.52				42		
738	"	25.0					6.25			9.41	84	10.41				42		
739	"	26.0					6.25			9.41	84	10.30				42		
740	"	27.0					6.23			9.40	83	10.20				42		
	BOTTOM	27.8		HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.														
904	08/17	0.0								RES.ELEV 527.45		DEPTH TO SHAFT 12 INTAKE 23.91 METERS					0	0
905	"	1.0					6.69			8.09	92	22.67				43		
906	"	2.0					6.75			8.11	92	22.68				43		
907	"	3.0					6.76			8.12	93	22.70				43		
908	"	4.0					6.77			8.11	92	22.71				42		
909	"	5.0					6.78			8.10	92	22.73				42		
910	"	6.0	0.3	5	9.4	9.3	6.80	4.0	2.5	8.11	92	22.73	27	15	0.02	42		
911	"	7.0					6.80			8.11	92	22.74				42		
912	"	8.0					6.81			8.11	92	22.75				42		
913	"	9.0					6.81			8.11	92	22.75				42		
914	"	10.0					6.80			8.09	92	22.75				42		
915	"	11.0					6.81			8.09	92	22.75				42		
916	"	12.0					6.75			8.68	96	21.25				42		
917	"	13.0					6.91			10.41	105	16.24				43		
918	"	14.0					6.94			10.72	106	15.21				43		
919	"	15.0					6.86			10.20	98	14.20				43		
920	"	16.0					6.70			10.06	96	13.68				43		
921	"	17.0					6.62			10.06	95	13.16				43		
922	"	18.0					6.50			9.84	92	12.74				43		
923	"	19.0					6.41			9.51	89	12.40				42		
924	"	20.0					6.31			9.15	84	12.12				43		
925	"	21.0	0.3	5	8.9	9.0	6.27	3.8	2.4	8.98	83	11.90	27	16	0.03	42		
926	"	22.0					6.22			8.67	79	11.61				42		
927	"	23.0					6.18			8.48	78	11.40				42		
928	"	24.0					6.14			8.27	75	11.16				43		

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SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
929	08/17	25.0					6.12			8.15	74	11.06				43		
930	"	26.0					6.09			7.99	72	10.87				43		
931	"	27.0					6.07			7.97	72	10.83				43		
	BOTTOM	27.7	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1096	09/21	0.0								RES.ELEV 526.50		DEPTH TO SHAFT 12 INTAKE 23.62 METERS					0	0
1097	"	1.0					6.51			8.60	93	19.31				43		
1098	"	2.0					6.61			8.61	93	19.30				43		
1099	"	3.0					6.65			8.63	93	19.32				43		
1100	"	4.0					6.67			8.65	93	19.34				43		
1101	"	5.0					6.69			8.65	93	19.33				43		
1102	"	6.0					6.69			8.65	93	19.33				43		
1103	"	7.0	0.3	5	6.4	8.7	6.71	4.2	2.7	8.63	93	19.34	30	17	0.02	43		
1104	"	8.0					6.71			8.62	93	19.33				43		
1105	"	9.0					6.71			8.61	93	19.31				43		
1106	"	10.0					6.71			8.61	93	19.30				43		
1107	"	11.0					6.70			8.60	93	19.27				42		
1108	"	12.0					6.68			8.52	91	19.24				43		
1109	"	13.0					6.68			8.53	91	19.21				43		
1110	"	14.0					6.65			8.31	89	19.05				43		
1111	"	15.0					6.48			7.80	82	17.95				43		
1112	"	16.0					6.31			7.51	77	16.81				43		
1113	"	17.0					6.19			7.20	72	15.79				43		
1114	"	18.0					6.11			7.28	72	14.77				43		
1115	"	19.0					6.06			7.06	68	14.16				43		
1116	"	20.0					6.03			7.09	68	13.30				43		
1117	"	21.0					6.01			7.11	67	13.00				43		
1118	"	22.0	0.3	5	6.0	9.7	6.00	3.9	2.6	7.03	66	12.55	29	19	0.03	43		
1119	"	23.0					5.99			7.01	65	12.11				43		
1120	"	24.0					5.96			6.90	64	11.87				43		
1121	"	25.0					5.96			6.85	63	11.75				43		
1122	"	26.0					5.96			6.84	63	11.70				43		
1123	"	27.0					5.96			6.82	62	11.63				43		
	BOTTOM	27.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1298	10/19	0.0								RES.ELEV 524.71		DEPTH TO SHAFT 12 INTAKE 23.07 METERS					2	0
1299	"	1.0	0.3	5	5.9	11.0	6.57	4.0	2.8	9.39	92	14.65	27	17	0.03	44		
1300	"	2.0					6.59			9.42	92	14.64				44		
1301	"	3.0					6.60			9.42	92	14.64				44		
1302	"	4.0					6.61			9.43	92	14.63				44		
1303	"	5.0					6.61			9.43	92	14.63				44		
1304	"	6.0					6.61			9.43	92	14.63				43		
1305	"	7.0					6.60			9.44	92	14.62				43		
1306	"	8.0					6.61			9.44	92	14.61				43		
1307	"	9.0					6.61			9.41	92	14.61				43		
1308	"	10.0					6.61			9.41	92	14.60				43		
1309	"	11.0					6.60			9.38	91	14.60				43		
1310	"	12.0					6.60			9.36	91	14.59				43		
1311	"	13.0					6.59			9.32	91	14.58				43		
1312	"	14.0					6.59			9.32	91	14.58				43		
1313	"	15.0					6.58			9.31	91	14.57				43		
1314	"	16.0					6.57			9.30	91	14.57				43		
1315	"	17.0					6.57			9.30	91	14.57				43		
1316	"	18.0					6.57			9.30	91	14.57				43		
1317	"	19.0					6.57			9.30	91	14.57				43		

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QUABBIN LABORATORY RECORDS 1994
(206) SHAFT #12---RESERVOIR

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
1318	10/19	20.0					6.57			9.30	91	14.56				43		
1319	"	21.0					6.57			9.28	90	14.56				43		
1320	"	22.0					6.54			9.16	89	14.49				43		
1321	"	23.0					6.48			8.92	87	14.38				43		
1322	"	24.0					6.16			7.23	69	13.50				43		
1323	"	25.0					5.97			6.25	58	12.53				44		
1324	"	26.0					5.93			6.19	57	12.25				44		
1325	"	27.0					5.91			6.15	57	12.25				44		
1326	"	28.0	0.3	5	6.6	11.1	5.91	4.3	2.9	6.14	57	12.17	28	20	0.10	44		
1327	"	29.0					5.89			5.88	54	12.07				44		
	BOTTOM	29.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1410	11/03	0.0								RES.ELEV 523.96		DEPTH TO SHAFT 12 INTAKE 22.85 METERS					4	0
1411	"	0.5	0.3	5	6.5	7.9	6.60	4.3	2.9	9.51	91	13.39	24	13	0.05	44		
1412	"	3.0					6.59			9.54	91	13.40				44		
1413	"	6.0					6.59			9.51	91	13.39				44		
1414	"	9.0					6.59			9.51	91	13.36				44		
1415	"	12.0					6.59			9.51	91	13.34				44		
1416	"	15.0					6.59			9.51	91	13.33				43		
1417	"	18.0					6.59			9.51	91	13.32				43		
1418	"	21.0					6.59			9.51	91	13.31				43		
1419	"	22.0					6.59			9.48	90	13.31				43		
1420	"	23.0	0.3	5	6.2	7.6	6.59	3.7	2.3	9.48	90	13.31	24	14	0.04	43		
1421	"	24.0					6.59			9.48	90	13.31				43		
	BOTTOM	24.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
AVG.			0.3	5	6.8	8.7	6.57	4.13	2.62	9.35	90	14.51	29	17	0.03	42	1	0
MAX.			0.3	5	9.4	11.1	7.04	4.5	3.0	12.34	106	24.54	33	20	0.10	44	4	0
MIN.			0.3	5	5.8	7.4	5.89	3.7	2.0	5.88	54	5.22	24	13	0.02	41	0	0

QUABBIN LABORATORY RECORDS 1994
DEN HILL---(RESERVOIR)

	SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
	343	04/27	0.0											RES. ELEV. 529.63				1	0
	344	"	0.5	0.3	12	7.2	8.3	6.39	3.8	2.5	11.18	97	9.24	40	20	0.08	44		
	345	"	3.0					6.34			11.28	96	8.53				46		
	346	"	6.0					6.27			11.39	95	7.37				46		
	347	"	9.0					6.23			11.40	94	6.90				46		
	348	"	12.0					6.18			11.32	92	6.59				46		
	349	"	15.0					6.15			11.25	92	6.31				46		
	350	"	18.0	0.3	12	7.3	9.5	6.10	4.1	2.4	11.21	90	6.12	40	22	0.09	46		
		BOTTOM	19.5	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
	434	05/18	0.0											RES. ELEV. 530.14				0	0
EVET	435	"	0.5	0.4	12	8.7	9.4	6.62	4.2	2.5	10.61	98	12.20	34	21	0.06	44		
	436	"	3.0					6.63			10.69	99	11.99				44		
	437	"	6.0					6.59			10.72	98	11.62				44		
	438	"	9.0					6.56			10.69	97	11.14				44		
	439	"	12.0					6.44			10.70	96	10.41				44		
	440	"	15.0					6.28			10.64	92	9.04				45		
EVET	441	"	18.0	0.3	10	8.0	8.6	6.18	4.1	2.6	10.63	90	8.05	32	23	0.05	46		
	442	"	19.0					6.11			10.52	89	7.81				46		
		BOTTOM	19.5	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
	597	06/23	0.0											RES. ELEV. 529.26				0	0
	598	"	1.0					6.82			8.45	96	22.65				42		
	599	"	2.0					6.82			8.51	97	22.44				42		
	600	"	3.0	0.3	5	6.8	8.7	6.86	4.0	2.4	8.61	97	21.78	31	19	0.04	42		
	601	"	4.0					6.86			8.66	97	21.66				42		
	602	"	5.0					6.90			9.15	101	20.46				42		
	603	"	6.0					6.96			9.41	103	19.90				42		
	604	"	7.0					6.98			9.56	102	19.00				42		
	605	"	8.0					7.02			9.79	103	17.91				42		
	606	"	9.0					6.99			9.84	101	16.77				42		
	607	"	10.0					6.91			9.80	98	15.41				42		
	608	"	11.0					6.75			9.63	94	14.57				43		
	609	"	12.0					6.52			9.22	87	13.20				43		
	610	"	13.0					6.34			8.90	84	12.82				43		
	611	"	14.0					6.26			8.80	81	12.00				44		
	612	"	15.0					6.20			8.50	78	11.30				44		
	613	"	16.0	0.3	7	6.9	8.0	6.14	3.8	2.0	8.31	75	10.91	33	22	0.06	44		
	614	"	17.0					6.11			8.30	74	10.63				45		
	615	"	18.0					6.09			8.13	72	10.25				45		
	616	"	19.0					6.08			7.96	70	9.68				45		
		BOTTOM	19.4	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
	741	07/13	0.0											RES. ELEV. 528.50				3	2
	742	"	1.0					6.72			7.95	95	25.32				42		
	743	"	2.0					6.73			7.97	95	25.20				42		
	744	"	3.0	0.3	5	7.5	9.2	6.74	3.8	2.3	7.98	95	25.09	28	16	0.04	43		
	745	"	4.0					6.75			8.02	95	24.96				43		
	746	"	5.0					6.75			8.03	96	24.91				43		
	747	"	6.0					6.82			8.72	101	23.26				43		
	748	"	7.0					6.88			9.14	103	21.84				43		
	749	"	8.0					6.88			9.38	103	20.74				43		
	750	"	9.0					6.87			9.62	105	19.77				43		
	751	"	10.0					6.94			10.08	106	18.10				43		
	752	"	11.0					7.05			10.41	107	16.79				43		

CONTINUED

QUABBIN LABORATORY RECORDS 1994

DEN HILL---(RESERVOIR) REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/18	0.81	<0.05	<0.01	0.30	0.01	0.03	0.05	<0.004	<0.003	<0.03	<0.001	0.006	0.070	2.34	<0.004	<0.0002	<0.009	0.011
05/18	<0.03	<0.05	<0.01	0.33	0.01	0.02	0.04	<0.004	<0.003	<0.03	<0.001	0.004	0.050	2.31	<0.004	<0.0002	<0.009	0.009

QUABBIN LABORATORY RECORDS 1994
DEN HILL---(RESERVOIR)

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
753	07/13	12.0					7.07			10.50	104	15.62				43		
754	"	13.0					6.53			8.48	83	14.36				43		
755	"	14.0					6.22			7.59	72	13.31				44		
756	"	15.0	0.4	7	7.4	9.8	6.06	4.5	3.1	7.00	65	12.41	30	19	0.04	44		
757	"	16.0					6.02			6.99	65	11.87				44		
758	"	17.0					5.98			6.90	62	11.07				45		
759	"	18.0					5.96			6.85	61	10.59				45		
760	"	19.0					5.95			6.53	58	10.41				45		
761	"	20.0					5.95			6.27	55	9.93				45		
	BOTTOM	20.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
932	08/17	0.0											RES. ELEV. 527.45				0	0
933	"	1.0					6.62			7.89	91	22.91				43		
934	"	2.0					6.63			7.90	91	22.93				43		
935	"	3.0					6.65			7.90	91	22.95				43		
936	"	4.0					6.65			7.90	91	22.95				43		
937	"	5.0					6.66			7.90	91	22.96				43		
938	"	6.0	0.3	5	8.4	10.8	6.68	4.3	2.8	7.92	91	22.96	29	16	0.07	43		
939	"	7.0					6.68			7.90	91	22.96				43		
940	"	8.0					6.69			7.90	91	22.97				43		
941	"	9.0					6.68			7.90	91	22.96				43		
942	"	10.0					6.62			7.61	87	22.71				43		
943	"	11.0					6.52			7.56	86	22.48				43		
944	"	12.0					6.35			8.01	86	18.80				43		
945	"	13.0					6.14			7.02	72	16.90				45		
946	"	14.0					6.06			6.10	60	15.21				44		
947	"	15.0					5.95			5.20	50	13.70				44		
948	"	16.0					5.90			4.81	45	12.43				45		
949	"	17.0	0.6	12	9.0	9.2	5.87	4.2	2.7	4.00	37	11.60	31	19	0.18	46		
950	"	18.0					5.87			3.67	33	11.00				46		
951	"	19.0					5.87			3.58	32	10.45				46		
	BOTTOM	19.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1124	09/21	0.0											RES.ELEV. 526.50				0	0
1125	"	1.0					6.60			8.36	90	19.55						
1126	"	2.0					6.60			8.37	90	19.51						
1127	"	3.0					6.60			8.38	91	19.48						
1128	"	4.0					6.60			8.39	91	19.46						
1129	"	5.0					6.59			8.38	91	19.45						
1130	"	6.0					6.59			8.38	91	19.43						
1131	"	7.0	0.4	7	7.1	9.0	6.59	4.0	2.7	8.32	90	19.42	33	19	0.05	44		
1132	"	8.0					6.57			8.25	89	19.37						
1133	"	9.0					6.57			8.25	89	19.33						
1134	"	10.0					6.55			8.21	89	19.26						
1135	"	11.0					6.52			8.10	87	19.18						
1136	"	12.0					6.46			8.01	86	19.07						
1137	"	13.0					6.36			7.43	80	18.85						
1138	"	14.0					6.22			6.53	69	18.34						
1139	"	15.0					6.02			4.63	47	16.43						
1140	"	16.0					5.87			2.15	21	13.72						
1141	"	17.0					5.81			1.66	15	12.02						
1142	"	18.0	1.5	20	7.2	8.5	5.83	4.9	3.1	1.10	10	11.37	36	23	0.62	47		
1143	"	19.0					5.83			1.18	11	10.80						
	BOTTOM	19.3	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															

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QUABBIN LABORATORY RECORDS 1994
DEM HILL---(RESERVOIR)

REVET ANALYSIS

DATE SAMP	KJELDAHL -N	AMMONIA -N	NIT-RITE -N	NIT-RATE -N	ORTHO PHOS-PHORUS	TOTAL PHOS-PHORUS	ALUM-INUM	CAD-MIUM	COP-PER	NICKEL	LEAD	ZINC	IRON	CAL-CIUM	ARSENIC	MERCURY	CHRO-MIUM	MANG-ANESE
05/18	0.81	<0.05	<0.01	0.30	0.01	0.03	0.05	<0.004	<0.003	<0.03	<0.001	0.006	0.070	2.34	<0.004	<0.0002	<0.009	0.011
05/18	<0.03	<0.05	<0.01	0.33	0.01	0.02	0.04	<0.004	<0.003	<0.03	<0.001	0.004	0.050	2.31	<0.004	<0.0002	<0.009	0.009

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
753	07/13	12.0					7.07			10.50	104	15.62				43		
754	"	13.0					6.53			8.48	83	14.36				43		
755	"	14.0					6.22			7.59	72	13.31				44		
756	"	15.0	0.4	7	7.4	9.8	6.06	4.5	3.1	7.00	65	12.41	30	19	0.04	44		
757	"	16.0					6.02			6.99	65	11.87				44		
758	"	17.0					5.98			6.90	62	11.07				45		
759	"	18.0					5.96			6.85	61	10.59				45		
760	"	19.0					5.95			6.53	58	10.41				45		
761	"	20.0					5.95			6.27	55	9.93				45		
	BOTTOM	20.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
932	08/17	0.0											RES. ELEV. 527.45				0	0
933	"	1.0					6.62			7.89	91	22.91				43		
934	"	2.0					6.63			7.90	91	22.93				43		
935	"	3.0					6.65			7.90	91	22.95				43		
936	"	4.0					6.65			7.90	91	22.95				43		
937	"	5.0					6.66			7.90	91	22.96				43		
938	"	6.0	0.3	5	8.4	10.8	6.68	4.3	2.8	7.92	91	22.96	29	16	0.07	43		
939	"	7.0					6.68			7.90	91	22.96				43		
940	"	8.0					6.69			7.90	91	22.97				43		
941	"	9.0					6.68			7.90	91	22.96				43		
942	"	10.0					6.62			7.61	87	22.71				43		
943	"	11.0					6.52			7.56	86	22.48				43		
944	"	12.0					6.35			8.01	86	18.80				43		
945	"	13.0					6.14			7.02	72	16.90				45		
946	"	14.0					6.06			6.10	60	15.21				44		
947	"	15.0					5.95			5.20	50	13.70				44		
948	"	16.0					5.90			4.81	45	12.43				45		
949	"	17.0	0.6	12	9.0	9.2	5.87	4.2	2.7	4.00	37	11.60	31	19	0.18	46		
950	"	18.0					5.87			3.67	33	11.00				46		
951	"	19.0					5.87			3.58	32	10.45				46		
	BOTTOM	19.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1124	09/21	0.0											RES.ELEV. 526.50				0	0
1125	"	1.0					6.60			8.36	90	19.55				45		
1126	"	2.0					6.60			8.37	90	19.51				45		
1127	"	3.0					6.60			8.38	91	19.48				44		
1128	"	4.0					6.60			8.39	91	19.46				44		
1129	"	5.0					6.59			8.38	91	19.45				44		
1130	"	6.0					6.59			8.38	91	19.43				44		
1131	"	7.0	0.4	7	7.1	9.0	6.59	4.0	2.7	8.32	90	19.42	33	19	0.05	44		
1132	"	8.0					6.57			8.25	89	19.37				44		
1133	"	9.0					6.57			8.25	89	19.33				44		
1134	"	10.0					6.55			8.21	89	19.26				44		
1135	"	11.0					6.52			8.10	87	19.18				44		
1136	"	12.0					6.46			8.01	86	19.07				44		
1137	"	13.0					6.36			7.43	80	18.85				44		
1138	"	14.0					6.22			6.53	69	18.34				44		
1139	"	15.0					6.02			4.63	47	16.43				44		
1140	"	16.0					5.87			2.15	21	13.72				47		
1141	"	17.0					5.81			1.66	15	12.02				47		
1142	"	18.0	1.5	20	7.2	8.5	5.83	4.9	3.1	1.10	10	11.37	36	23	0.62	47		
1143	"	19.0					5.83			1.18	11	10.80				48		
	BOTTOM	19.3	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															

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QUABBIN LABORATORY RECORDS 1994
DEN HILL---(RESERVOIR)

SAMP NO.	DATE SAMP	DEPTH M	TURB-IDITY	COLOR	CHLO-RIDE	HARD-NESS	pH	ST.M. ALK.	E.P.A. ALK.	DISS OXYGEN PPM	DISS OXYGEN %SAT	TEMP. DEG.C.	RESIDUE TOTAL	RESIDUE FIXED	Fe	SPEC. COND.	COLIFORM COLONIES PER 100 ML. M.F. TOTAL	COLIFORM COLONIES PER 100 ML. M.F. FECAL
1328	10/19	0.0											RES. ELEV. 524.71				0	0
1329	"	1.0	0.4	5	6.5	9.4	6.45	4.0	2.7	9.09	89	14.28	30	19	0.12	45		
1330	"	2.0					6.48			9.09	88	14.22				45		
1331	"	3.0					6.49			9.04	87	14.19				45		
1332	"	4.0					6.48			9.02	87	14.17				45		
1333	"	5.0					6.47			9.02	87	14.16				45		
1334	"	6.0					6.47			9.06	87	14.15				45		
1335	"	7.0					6.47			9.04	87	14.13				45		
1336	"	8.0					6.47			8.99	87	14.10				45		
1337	"	9.0					6.48			9.07	88	14.08				45		
1338	"	10.0					6.47			9.07	88	14.07				45		
1339	"	11.0					6.47			8.94	86	14.07				45		
1340	"	12.0					6.45			8.86	85	14.03				45		
1341	"	13.0					6.43			8.85	85	13.98				45		
1342	"	14.0					6.45			8.90	86	13.94				45		
1343	"	15.0					6.46			9.10	88	13.90				45		
1344	"	16.0					6.50			9.23	89	13.77				45		
1345	"	17.0	0.4	8	6.5	10.1	6.52	4.3	3.0	9.20	88	13.69	31	20	0.13	45		
1346	"	18.0					6.50			8.99	86	13.63				45		
	BOTTOM	18.5	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
1422	11/03	0.0											RES. ELEV. 523.96				20	0
1423	"	0.5	0.5	7	6.6	8.2	6.51	4.1	2.7	9.41	89	12.87	26	13	0.13	45		
1424	"	3.0					6.52			9.41	89	12.82				45		
1425	"	6.0					6.52			9.41	88	12.75				45		
1426	"	9.0					6.53			9.40	88	12.73				45		
1427	"	12.0					6.51			9.40	88	12.70				45		
1428	"	15.0					6.54			9.43	88	12.63				45		
1429	"	17.0	0.5	7	6.3	8.0	6.54	4.0	2.5	9.43	88	12.62	27	15	0.13	45		
1430	"	18.0					6.54			9.40	88	12.62				45		
	BOTTOM	18.1	HYDROLAB USED FOR -- pH, DO, TEMP., AND COND.															
AVG.			0.5	9	7.3	9.0	6.46	4.13	2.63	8.38	84	15.61	32	19	0.12	44	3	0
MAX.			1.5	20	9.0	10.8	7.07	4.9	3.1	11.40	107	25.32	40	23	0.62	48	20	2
MIN.			0.3	5	6.3	8.0	5.81	3.8	2.0	1.10	10	6.12	26	13	0.04	42	0	0

ACME
BOOKBINDING CO., INC.

APR 4 2002

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CHARLESTOWN, MA 02129